

ANTIBODIES AND ELISA KITS FOR NEUROSCIENCE RESEARCH

Mosaic image generated from Aviva's antibody validation data

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Aviva Systems Biology: Your source for antibody solutions

Aviva Systems Biology Corporation specializes in providing polyclonal and monoclonal antibodies for research needs. Unlike other companies, we design, manufacture and validate our own antibodies. We currently offer over 16,000 antibodies to the most popular protein targets.

Our head office is in San Diego, CA, and we also have an office in Beijing, China. Both locations provide scientific support assisting researchers with a variety of proteomic objectives.

Aviva provides unique tools for research associated to unique species and targets. The company's products are relevant to 10,000 unique species, 10,000 cellular processes, and 5,000 protein pathways.

In the last two years, Aviva has been able to generate over 1,300 reviews from researchers. Many reference a name, research institution, protocols, application notes, and images.

Research Areas

Neuroscience, transcription factors, cancer, cardiovascular, cell biology, DNA damage and repair, epigenetics, signal transduction, cell differentiation, and stem cell biology.

Specialties

ELISA kits, antibody production, antibody products, reagents, antibody solutions, immunohistochemistry, species reactivity, antibody customer reviews, western blot, immunoprecipitation, gene tools, antibody BLAST.

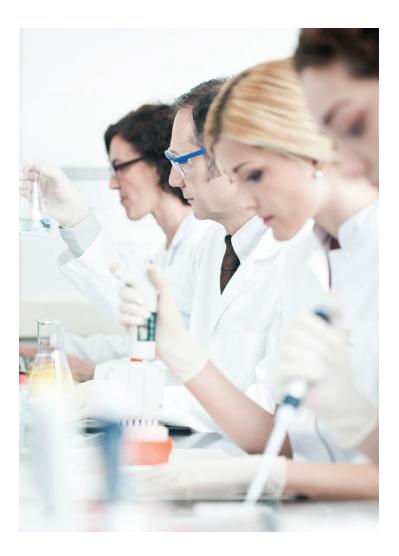


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AVIVA'S BIOCHEMICAL KITS FOR NEUROSCIENCE

Traditional immunoassay methods have long been employed for easy measurement of analytes biological matrices. ELISA's provide superior sensitivity, specificity, reproducibility and throughput compared with other techniques such as Western blotting or IHC. Aviva's ELISA Kits are a convenient, economical and reliable method for quantitating your target of interest. Fully optimized and validated, these kits will save laboratories development time and costs.

Aviva now offers a diverse range of ELISA kits for quantitation of proteins in your biological samples covering over 8,000 different assay targets.

Visit Aviva's ELISA Kit Page Online to View Products, Protocols, and Other Useful information at https://www.avivasysbio.com/en/research-areas/ neuroscience-elisa

BIOCHEMICAL ELISA KITS

All of Aviva's ELISA kits provide:

- Guaranteed results with high quality assay specs for sensitivity and reproducibility
- Fully validated and easy-to-use protocols
- Complete and optimized reagent sets
- Comprehensive and knowledgeable technical support
- Bulk sized single lot batches
- Robust stability for long shelf life
- Trial sizes for sample type verification

Biomarkers • Hormones Biochemicals • Biogenic amines

Human • Mouse • Rat • Pig • Guinea Pig Rabbit • Simian • Bovine • Canine • Horse • Goat Chicken • Plant • Sheep • Zebrafish • Salmon Bacterial • Viral



Serotonin ELISA Kit (OKEH02558) Range: 1.56 - 100 ng/mL Sensitivity: < 0.23 ng/mL



Metanephrine ELISA Kit (OKWB10529) Range: 0.156-10 ng/mL Sensitivity: < 0.094 ng/mL



Dopamine ELISA Kit (OKEH02560) Range: 1.56 - 100 ng/mL Sensitivity: < 0.23 ng/mL



Neopterin ELISA Kit (OKWB10530) Range: 0.156-10 ng/mL Sensitivity: < 0.094 ng/mL

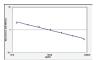
Noradrenaline ELISA Kit (OKEH02565)

Range: 31.2 - 2,000 pg/mL

Sensitivity: < 7.5 pg/mL



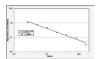
Histamine ELISA Kit (OKEH02576) Range: 7.8 - 500 ng/mL Sensitivity: < 3.4 ng/mL



Melatonin ELISA Kit (OKEH02566) Range: 15.6 - 1,000 pg/mL Sensitivity: < 10 pg/mL



Normetanephrine ELISA Kit (OKWB10533) Range: 6.25-400 pg/mL Sensitivity: < 3.75 pg/mL



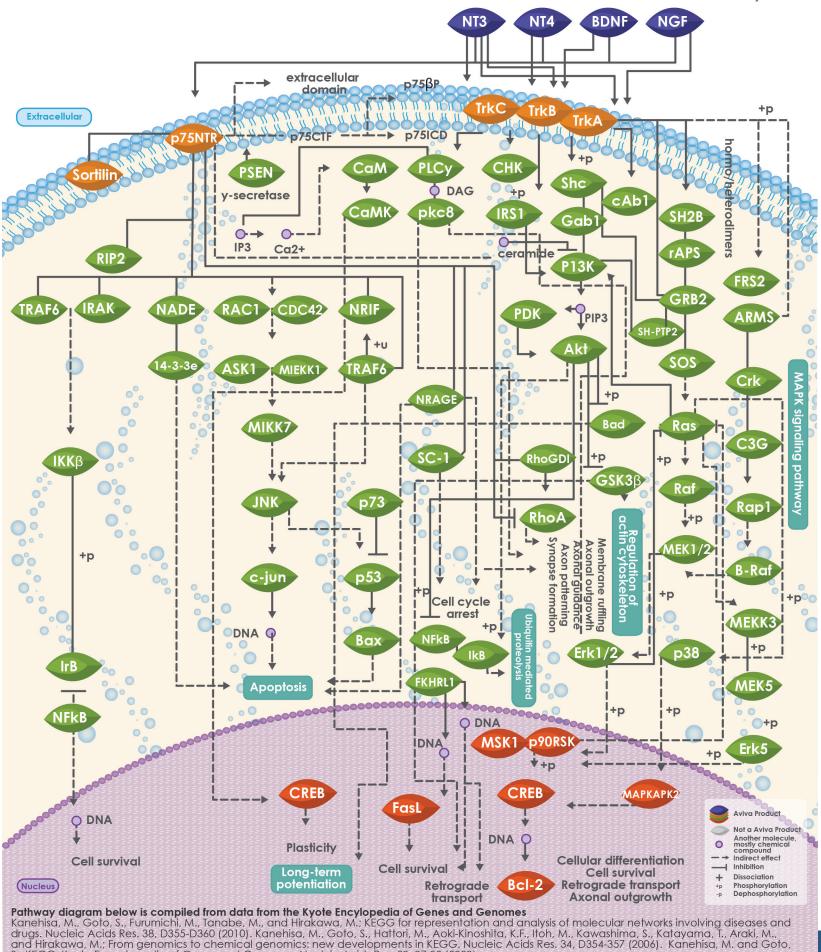
Melatonin-Sulfate ELISA Kit (OKWB10532) Range: 7.813-500 pg/mL Sensitivity: < 4.688 pg/mL



Serotonin ELISA Kit (OKEH02558) Range: 1.56 - 100 ng/mL Sensitivity: < 0.23 ng/mL

NEUROTROPHIN SIGNALING PATHWAY





S.; KEGG: Kyoto Encyclopedia of Genes and Genomes. Nucleic Acids Res. 28, 27-30 (2000). © Aviva Systems Biology

AVIVA'S TOP NEUROTROPHIN SIGNALING ANTIBODIES AND ELISA KITS



BDNF Antibody (ARP41970_P050) Reactivity: Human, Mouse, Monkey Application: WB, IHC Sample Type: Mouse Brain Lysate Publiced Internet Feedback



NGF Antibody (OAAF05872) Reactivity: Human Application: WB, IHC Sample Type: Human Lung Carcinoma



NTRK1 Antibody (OAAN00719) Reactivity: Human, Mouse, Rat Application: WB, IHC Sample Type: Mouse Stomach



Trk A Antibody (Phopho-Tyr496) (OAAF05468) Reactivity: Human, Mouse, Rat Application: WB, ELISA Sample Type: Jurkat



NTRK2 Antibody (ARP51316_P050) Reactivity: Human, Mouse Application: WB, IHC Sample Type: Mouse Brain Publed Internet Feedback



NTRK2 Antibody (Phospho-Tyr515) (OAAF00024) Reactivity: Human, Mouse, Rat Application: WB, IHC Sample Type: Human Brain



LEP Antibody (ARP41697_P050) Reactivity: Human Application: WB, IHC Sample Type: Human Placenta Publiced



RAB5A Antibody (ARP56563_P050) Reactivity: Human, Mouse, Zebrafish Application: WB, IHC Sample Type: Zebrafish Gut



RAB7A Antibody (ARP75185_P050) Reactivity: Human Application: WB Sample Type: 293T Cell Lysate



RAB11A Antibody (ARP63742_P050) Reactivity: Human, Mouse, Monkey Application: WB, IHC Sample Type: 1 = Human NT-2 Cells; 2 = Mouse WT Brain Customer Feedback



BDNF ELISA Kit (Human) (OKBB00127) Range: 31.2 pg/ml-2,000 pg/ml Sensitivity: < 2 pg/ml

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NGF/NGFI ELISA Kit (Human) (OKBB00229) Range: 15.6 pg/mL-1,000 pg/mL Sensitivity: < 1 pg/mL

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NTRK1 ELISA Kit (Human) (OKEH07093) Range: 0.078 - 5 ng/mL Sensitivity: 24 pg/mL

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TRKA ELISA Kit (Human) (OKBB00340) Range: 156 pg/ml-10,000 pg/ml Sensitivity: < 10 pg/ml



NTRK2 ELISA Kit (Human) (OKCD01646) Range: 0.156 - 10 ng/mL Sensitivity: < 0.057 ng/mL

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RHOA ELISA Kit (Human) (OKEH01974) Range: 0.156 - 10 ng/mL Sensitivity: < 0.11 ng/mL



Leptin ELISA Kit (Human) (OKBB00206) Range: 62.5 pg/mL-4,000 pg/mL Sensitivity: < 10 pg/mL

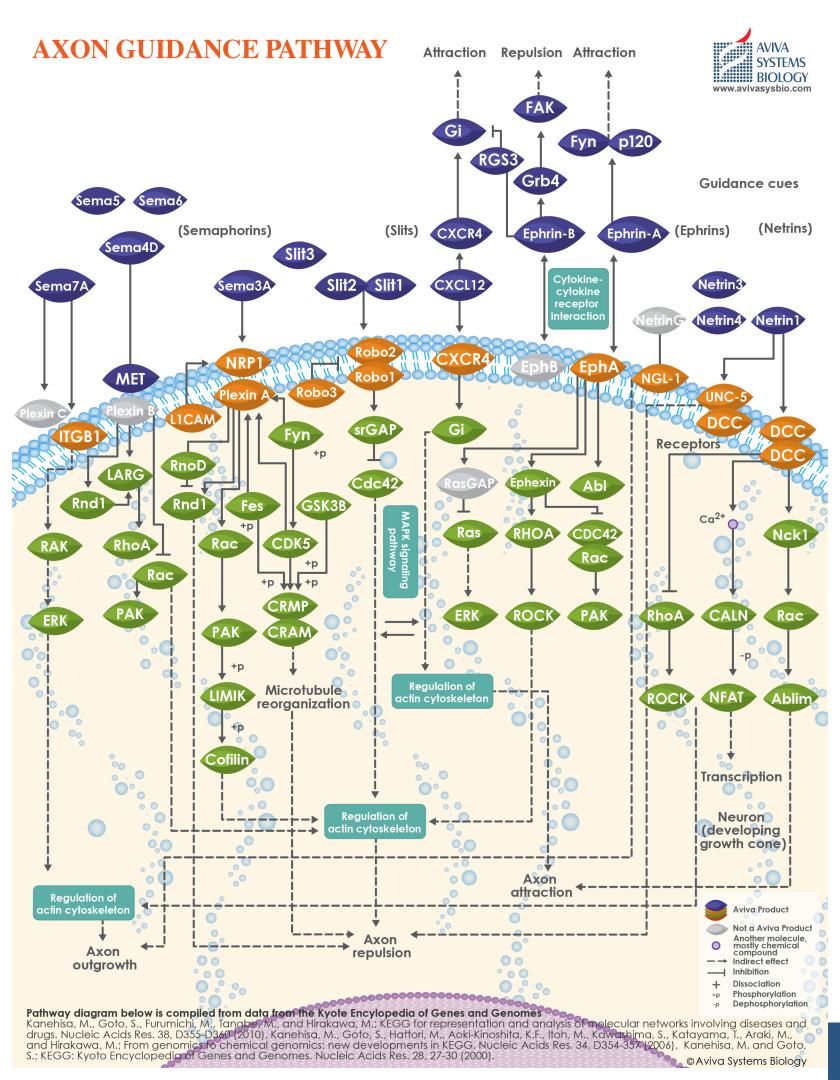
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RAB5A ELISA Kit (Human) (OKCD01064) Range: 0.312-20 ng/mL Sensitivity: < 0.122 ng/mL

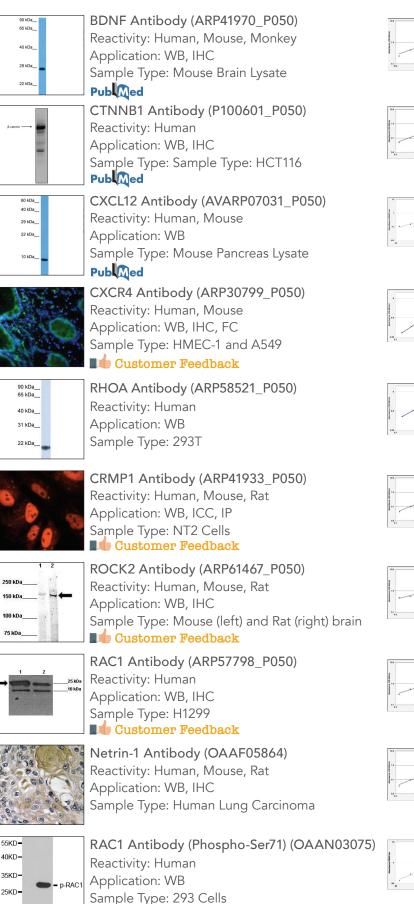
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RAB7A ELISA Kit (Human) (OKCD02032) Range: 0.312 - 20 ng/mL Sensitivity: < 0.113 ng/mL

RAB11A ELISA Kit (Human) (OKEH01232) Range: 0.78 - 50 ng/mL Sensitivity: < 0.2 ng/mL



AVIVA'S TOP AXON GUIDANCE ANTIBODIES AND ELISA KITS





BDNF ELISA Kit (Human) (OKBB00127) Range: 31.2 pg/ml-2,000 pg/ml Sensitivity: < 2 pg/ml

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CTNNB1 ELISA Kit (Human) (OKEH00711) Range: 0.312 - 20 ng/mL Sensitivity: < 0.2 ng/mL

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CXCL12 ELISA Kit (Human) (OKCA00828) Range: 31.25 pg/mL-2,000 pg/mL Sensitivity: 7.81 pg/mL

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CXCR4 ELISA Kit (Human) (OKEH01535) Range: 0.156 - 10 ng/mL Sensitivity: < 0.052 ng/mL

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RHOA ELISA Kit (Human) (OKEH01974) Range: 0.156 - 10 ng/mL Sensitivity: < 0.11 ng/mL

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CRMP1 ELISA Kit (OKWB06249) Range: 0.156-10 ng/mL Sensitivity: < 0.094 ng/mL

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ROCK2 ELISA Kit (Human) (OKEH04726) Range: 1.56 - 100 ng/mL Sensitivity: < 0.78 ng/mL



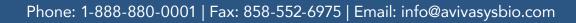
RNASE1 ELISA Kit (Human) (OKCD01226) Range: 78-5,000 pg/mL Sensitivity: < 37 pg/mL

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63	2.5	24

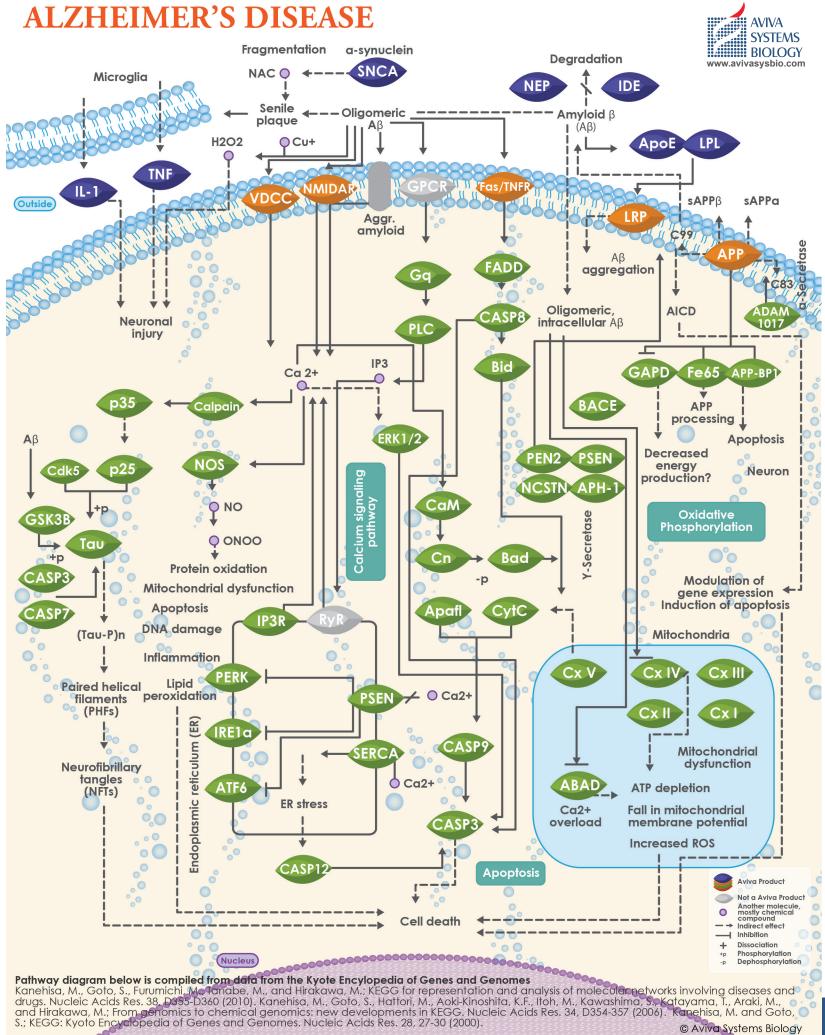
NTN1 ELISA Kit (Human) (OKEH01303) Range: 0.312 - 20 ng/mL Sensitivity: < 0.23 ng/mL



EPHB1 ELISA Kit (OKCA01224) Range: 62.5 - 4,000 pg/mL Sensitivity: < 15.6 pg/mL

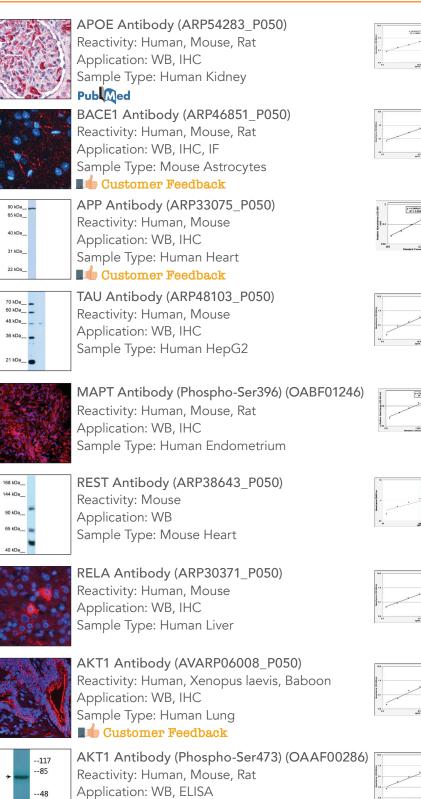


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AVIVA'S TOP ALZHEIMER'S DISEASE ANTIBODIES AND ELISA KITS



APOE ELISA Kit (Human) (OKEH02646) Range: 7.8 - 500 ng/mL Sensitivity: < 3.1 ng/mL

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BACE1 ELISA Kit (Human) (OKEH00554) Range: 0.78 ng/mL - 50.0 ng/mL Sensitivity: < 0.31 ng/mL

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Absorbances files		
0.02 250		
260	2,600 Standard Concentration (pg/ml.)	21

APP ELISA Kit (Human) (OKBB00297) Range: 312 pg/ml-20,000 pg/ml Sensitivity: < 10 pg/ml

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MAPT ELISA Kit (Human) (OKEH01410) Range: 7.8 - 500 pg/mL Sensitivity: < 3.5 pg/mL

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Cathepsin B ELISA Kit (Human) (OKBB00301) Range: 156 pg/ml-10,000 pg/ml Sensitivity: < 5 pg/ml

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REST ELISA Kit (Human) (OKCA00797) Range: 31.25 pg/mL-2,000 pg/mL Sensitivity: 7.81 pg/mL



NFKB1 ELISA Kit (Human) (OKEH04591) Range: 0.312 - 20 ng/mL Sensitivity: < 0.15 ng/mL

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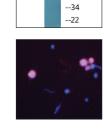
AKT1 ELISA Kit (Human) (OKEH00407) Range: 0.78 - 50.0 ng/mL Sensitivity: < 0.195 ng/mL

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BAD ELISA Kit (Human) (OKEH02462) Range: 0.156 - 10 ng/mL Sensitivity: < 0.098 ng/mL

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CASP3 ELISA Kit (Human) (OKEH02670) Range: 0.312 - 20 ng/mL Sensitivity: < 0.078 ng/mL



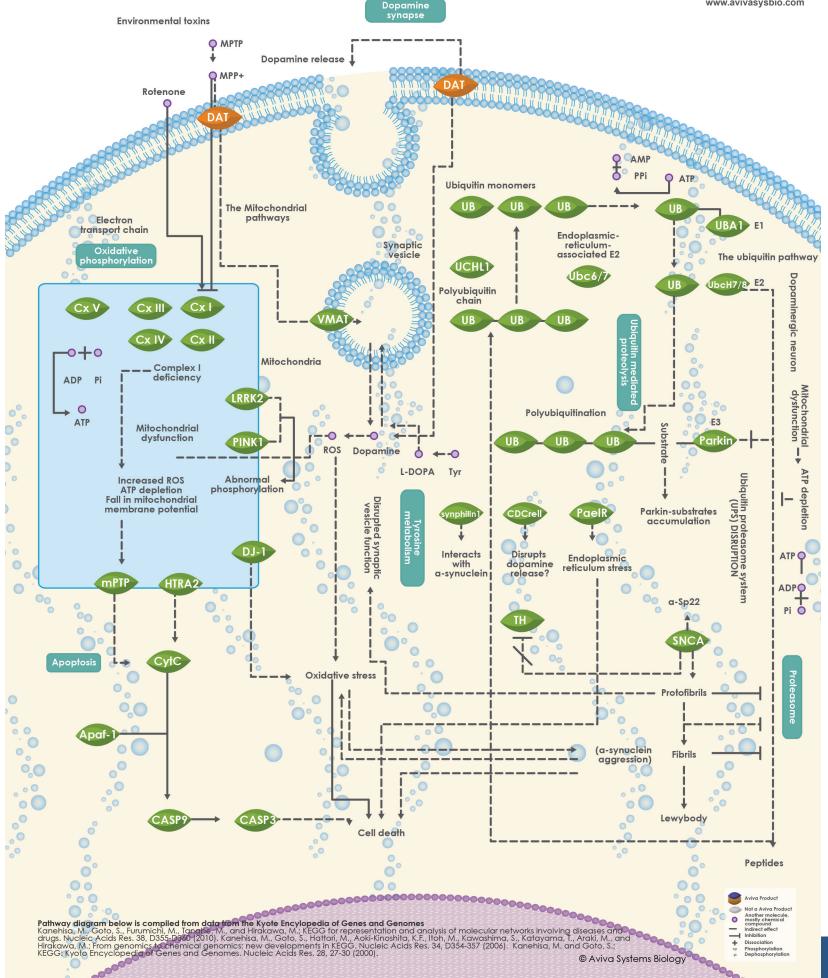
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CASP3 Antibody (AVARP00021_T100) Reactivity: Human Application: WB, IHC Sample Type: HeLa Publ Med L Customer Feedback

Sample Type: HeLa Cells

PARKINSON'S DISEASE PATHWAY





AVIVA'S TOP PARKINSON'S DISEASE ANTIBODIES AND ELISA KITS



REST Antibody (ARP38643_P050) Reactivity: Mouse Application: WB Sample Type: Mouse Heart



JUN Antibody (P100911_P050) Reactivity: Human Application: WB, IHC, ChIP Sample Type: Human Lung Tissue Publed



CASP3 Antibody (AVARP00021_T100) Reactivity: Human Application: WB, IHC Sample Type: HeLa Publiced



c-Jun Antibody (Phospho-Ser73) (OAAF07697) Reactivity: Human, Mouse, Rat Application: WB, IHC Sample Type: Human Breast Carcinoma



BAD Antibody (Phospho-Ser134) (OAAF00162) Reactivity: Human, Mouse Application: WB, IHC, IF Sample Type: HeLa Cells



7 = 0.31364^{1.100} R¹ = 0.5621

> BAD ELISA Kit (Human) (OKEH02462) Range: 0.156 - 10 ng/mL Sensitivity: < 0.098 ng/mL

REST ELISA Kit (Human) (OKCA00797)

JUN ELISA Kit (Human) (OKEH02809)

CASP3 ELISA Kit (Human) (OKEH02670)

GDNF ELISA Kit (Human) (OKBB00152)

Range: 31.2 pg/ml-2,000 pg/ml

Range: 31.25 pg/mL-2,000 pg/mL

Sensitivity: 7.81 pg/mL

Range: 1.56 - 100 ng/mL

Sensitivity: < 0.98 ng/mL

Range: 0.312 - 20 ng/mL

Sensitivity: < 4 pg/ml

Sensitivity: < 0.078 ng/mL

250 kDa	
150 kDa	
100 kDa —	
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50 kDa —	
37 kDa 🗕	
25 kDa	
20 kDa —	
15 kDa 🗕	
10 kDa —	

SOX2 Antibody (ARP38233_P050) Reactivity: Human, Mouse Application: WB, IHC Sample Type: Human HeLa Customer Feedback



STAT3 Antibody (ARP38253_P050) Reactivity: Human, Mouse Application: WB, IHC, IF Sample Type: Human Uterus



SNCA Antibody (ARP42350_P050) Reactivity: Human Application: WB Sample Type: Human Fetal Liver



STAT3 Antibody (Phospho-Ser727) (OAAF07784) Application: WB, IHC Reactivity: Human Sample Type: Human Breast



BAD Antibody (OAAN03243) Reactivity: Human, Rat Application: WB, IHC, IF Sample Type: HeLa Cell



SOX2 ELISA Kit (Human) (OKEH00440) Range: 0.31 - 20 ng/mL Sensitivity: < 0.014 ng/mL

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STAT3 ELISA Kit (Human) (OKEH02914) Range: 0.312 - 20 ng/mL Sensitivity: < 0.12 ng/mL

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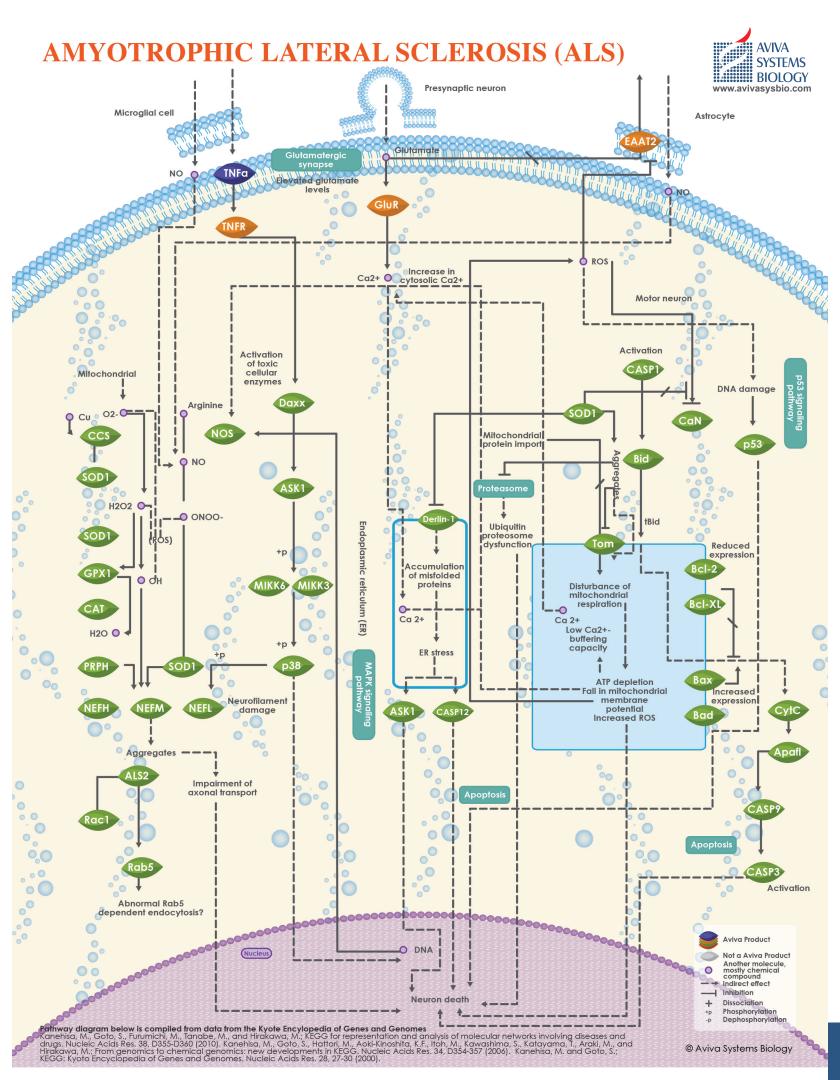
SNCA ELISA Kit (Human) (OKEH00882) Range: 15.6 - 1000 pg/mL Sensitivity: < 4.6 pg/mL

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PARK2 ELISA Kit (Mouse) (OKCA01659) Range: 3.12 - 200 pg/mL Sensitivity: 0.78 pg/mL

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CYCS ELISA Kit (Mouse) (OKCA01652) Range: 34.3 - 2,200 pg/mL Sensitivity: < 8.5 pg/mL



AVIVA'S TOP AMYTROPHIC LATERAL SCLEROSIS ANTIBODIES AND ELISA KITS



SOD1 Antibody (ARP45752_T100) Reactivity: Human Application: WB, IHC Sample Type: Human Kidney



SOD1 ELISA Kit (Human) (OKEH02905) Range: 0.156 - 10 ng/mL Sensitivity: 0.156 ng/mL

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MTOR ELISA Kit (Human) (OKEH02402) Range: 78 - 5000 pg/mL Sensitivity: < 39 pg/mL



TARDBP ELISA Kit (Human) (OKEH01388) Range: 0.78 - 50 ng/mL Sensitivity: < 0.39 ng/mL

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1.0		P-LINN
0.9		

FUS ELISA Kit (Human) (OKEH07134) Range: 0.156 - 10 ng/mL Sensitivity: 0.156 ng/mL



MAPT ELISA Kit (Human) (OKEH01410) Range: 7.8 - 500 pg/mL Sensitivity: < 3.5 pg/mL

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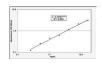
APOE ELISA Kit (Human) (OKEH02646) Range: 7.8 - 500 ng/mL Sensitivity: < 3.1 ng/mL



PINK1 ELISA Kit (Human) (OKCD04525) Range: 1.56-100 ng/mL Sensitivity: < 1.56 ng/mL



BAX ELISA Kit (Human) (OKEH04111) Range: 0.31 - 20 ng/mL Sensitivity: < 0.15 ng/mL



ALS2 ELISA Kit (Human) (OKWB05427) Range: 0.313-20 ng/mL Sensitivity: < 0.188 ng/mL



S100B ELISA Kit (Human) (OKCA00128) Range: 78 pg/mL - 5,000 pg/mL Sensitivity: < 19.5 ng/mL



mTor Antibody (OAAN03300) Reactivity: Human, Mouse, Rat Application: WB Sample Type: Left to Right: HeLa, HepG2, K562, Mouse Kidney, Mouse Brain, Rat Brain.



TARDBP Antibody (ARP38941_T100) Reactivity: Human Application: WB, IHC Sample Type: Human Liver Publed



FUS Antibody (ARP40278_P050) Reactivity: Human, Mouse Application: WB, IHC Sample Type: Human Breast



Tau Antibody (ARP48103_P050) Reactivity: Human, Mouse Application: WB, IHC Sample Type: Human HepG2



APOE Antibody (ARP54283_P050) Reactivity: Human, Mouse, Rat Application: WB, IHC Sample Type: Human Kidney Publed



PINK1 Antibody (ARP63313_P050) Reactivity: Human Application: WB, IHC Sample Type: Human Heart



BAX Antibody (AVARP02020_T100) Reactivity: Human, Mouse Application: WB, IHC Sample Type: Human Heart Publed Customer Feedback



ALS2 Antibody (OAAB03484) Reactivity: Human, Mouse Application: WB, IHC Sample Type: Human Brain



Tau Antibody (Phospho-Ser396) (OAAF05596) Reactivity: Human. Mouse, Rat Application: WB, ELISA Sample Type: HeLa Cells

AVIVA'S ANTIBODIES FOR IMMUNOHISTOCHEMISTRY (IHC)

Immunohistochemistry (IHC) is a combination of anatomical, immunological and biochemical methods used to localize antigens in tissue sections by using labeled antibody as specific reagents through antigen-antibody interactions that are visualized by a marker such as fluorescent dye or enzyme.

Since immunohistochemistry involves specific antigenantibody reaction, it can be used to detect any antigen that has an antibody raised against it. Thus, immunohistochemistry has become a crucial technique and widely used in many biomedical research laboratories as well as clinical diagnostics.

Visit Aviva's IHC Page Online to View Products, Protocols, and Other Useful Information at http://www.avivasysbio.com/ihc.html

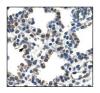
IHC Antibodies in Human Diseases

Aviva has identified antibodies that have been used in IHC for identifying biomarkers in human diseases and want to provide researchers with resources. For a list of such antibodies, please see below.

The following antibodies were selected based on multiple criteria such as:

- Their importance in disease pathways.
- Having been used and validated in IHC experiments using human, mouse and rat tissues.
- Having publications citing their use as biomarkers for various disease indications.

FEATURED PRODUCTS



RCOR1 Antibody (ARP39178_T100) N-terminal region, using Human Lung Tissue in IHC.

KCNN2 Antibody (ARP35094_T100)

C-terminal region, using Rat Brain sections



Publed

Pub Med

in IHC.

Pub



GLI2 Antibody (ARP31885_T100) Middle region, using Human Intestine tissue in IHC.



COX4I1 Antibody (ARP42784_T100) N-terminal region, using Human Heart tissue in IHC.

Pub Med

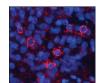


CTNNB1 Antibody (AVARP14001_T100) C-terminal region, using Human Ovary tissue in IHC.



KIAA0317 Antibody (ARP44874_P050) N-terminal region, using Human Lung in IHC.

Pub Med



CTBP1 Antibody (ARP32468_P050) C-terminal region, using Human Pineal tissue in IHC.



MAPK1 antibody (ARP58899_P050) C-terminal region, using Human Testis tissue in IHC.



STAT3 Antibody (AVARP09057_P050) Middle region, using Human Thymus in IHC.

Pub



MAP1LC3A Antibody (ARP51335_P050) N-terminal region, using Human Heart tissue in IHC.

Tips & Tricks for Immunohistochemistry

1) Antigen Retrieval Method:

This will break protein cross-links and uncovers antigen sites that may not have previously been exposed. Antigen Retrieval can significantly improve your IHC results. Methods are usually broken down into categories such as heat induced, room temperature, and retrieval for frozen sections.

2) Tissue Adherence Methods:

Coat slides with poly-lysine or gelatin to improve adhesions of tissue sections

3) Assess the correct positive and negative controls:

Use a negative control to assess that there isn't any non-specific binding and use a positive control to make sure that the antibody binds to the correct antigen.

4) Blocking:

Another good idea is to block your tissue before immunohistochemistry. Blocking helps reduce background and avoid non-specific staining.

Some common blocking solutions are:

- Peroxide Blocking Solutions
- Avidin/Biotin Blocking Solutions
- Normal Serum Blocking Solutions

5) Washing:

Washing sections while shaking at least 3 times reduces the amount of background staining by rinsing away the antibody.

