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Anti-Tau/MAPT Antibody Picoband®

Catalog Number: A00097-3

About MAPT

MAPT, Microtubule-associated protein tau, appears to be enriched in axons. The MAPT gene is assigned to chromosome 17 by hybridization of a cDNA clone to flow-sorted and spot-blotted chromosomes and to 17q21 by in situ hybridization, containing 16 exons. The tau proteins are the product of alternative splicingfrom a single gene that in humans is designated MAPT. Tau proteins are proteins that stabilize microtubules. They are abundant in neurons in the central nervous system and are less common elsewhere. When tau proteins are defective, and no longer stabilize microtubules properly, they can result in dementias such as Alzheimer's disease.

Overview

Product Name	Anti-Tau/MAPT Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Tau/MAPT Antibody Picoband® catalog # A00097-3. Tested in ELISA, IF, ICC, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P10636

Technical Details

Immunogen	E.coli-derived human Tau/MAPT recombinant protein (Position: M1-L322).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

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Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human ELISA, 0.1-0.5 ug/ml, -

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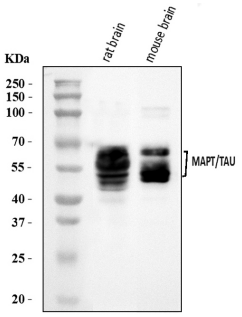
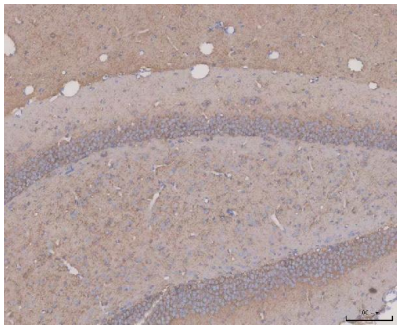
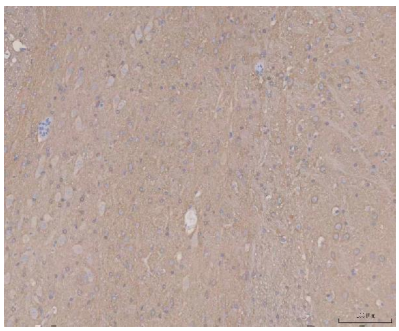
Anti-Tau/MAPT Antibody Picoband® (A00097-3) Images



Western blot analysis of Tau/MAPT using anti-Tau/MAPT antibody (A00097-3). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: mouse brain tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Tau/MAPT antigen affinity purified polyclonal antibody (Catalog # A00097-3) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Tau/MAPT at approximately 50-70 kDa. The expected band size for Tau/MAPT is at 79 kDa.



IHC analysis of Tau/MAPT using anti-Tau/MAPT antibody (A00097-3). Tau/MAPT was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Tau/MAPT Antibody (A00097-3) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of Tau/MAPT using anti-Tau/MAPT antibody (A00097-3). Tau/MAPT was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Tau/MAPT Antibody (A00097-3) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

IHC analysis of Tau/MAPT using anti-Tau/MAPT antibody (A00097-3). Tau/MAPT was detected in a paraffin-embedded section of human brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10%

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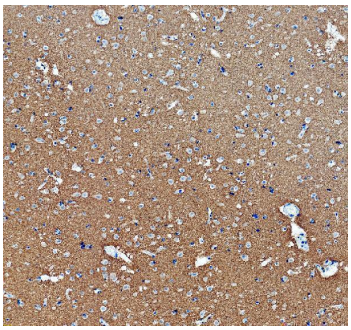
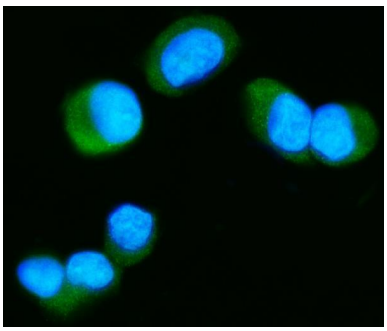


goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Tau/MAPT Antibody (A00097-3) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IF analysis of Tau/MAPT using anti-Tau/MAPT antibody (A00097-3). Tau/MAPT was detected in an immunocytochemical section of T-47D cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-Tau/MAPT Antibody (A00097-3) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

3 Publications Citing This Product

1. PubMed ID: 10.1007/s00277-008-0470-3, Simultaneous expression of Oct4 and genes of three germ layers in single cell-derived multipotent adult progenitor cells

2. PubMed ID: 25317137, Li X, Li M, Li Y, Quan Q, Wang J. Neural Regen Res. 2012 Dec 25;7(36):2860-6. Doi: 10.3969/J.Issn.1673-5374.2012.36.002. Cellular And Molecular Mechanisms Underlying The Action Of Ginsenoside Rg1 Against Alzheimer'S Disease.

3. PubMed ID: 22793989, Li L, Ren L, Liu W, Wang Jc, Wang Y, Tu Q, Xu J, Liu R, Zhang Y, Yuan Ms, Li T, Wang J. Anal Chem. 2012 Aug 7;84(15):6444-53. Doi: 10.1021/Ac3013708. Epub 2012 Jul 26. Spatiotemporally Controlled And Multifactor Involved Assay Of Neuronal Compartm...

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