

## 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 splicing from 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

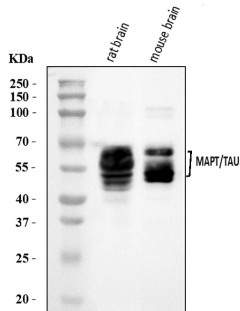
|                      |   |
|----------------------|---|
| Product Name         | Anti-Tau/MAPT Antibody Picoband™  |
| Reactive Species     | Human, Mouse, Rat   |
| Description          | Boster Bio Anti-Tau/MAPT Antibody Picoband™ catalog # A00097-3. Tested in ELISA, IF, ICC, WB applications. This antibody reacts with Human, Mouse, Rat.   |
| Application          | ELISA, IF, ICC, WB  |
| Clonality            | Polyclonal  |
| Formulation          | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .   |
| 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

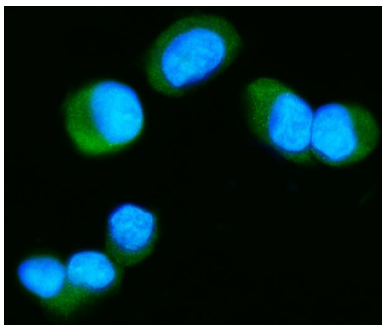
|                               |   |
|-------------------------------|---|
| Immunogen                     | E.coli-derived human Tau/MAPT recombinant protein (Position: M1-L322).  |
| Predicted Reactive Species    | Chicken   |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent 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.   |

|                     |   |
|---------------------|---|
| Purification        | Immunogen affinity purified.  |
| Suggested Dilutions | <p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.25-0.5 ug/ml, Mouse, Rat</p> <p>Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human</p> <p>Direct ELISA, 0.1-0.5 ug/ml, Human</p> |

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



**Figure 1. 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.



**Figure 2. 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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