

Anti-Tau MAPT Rabbit Monoclonal Antibody

Catalog Number: M00097

About MAPT

Phosphoinositide-3-kinase (PI3K) that phosphorylates PtdIns (Phosphatidylinositol), PtdIns4P (Phosphatidylinositol 4-phosphate) and PtdIns (4,5) P2 (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3) . PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Participates in cellular signaling in response to various growth factors.

Overview

Product Name	Anti-Tau MAPT Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Tau MAPT Rabbit Monoclonal Antibody catalog # M00097. Tested in WB, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IF, ICC, WB
Clonality	Monoclonal HAB-13
Formulation	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P10636

Technical Details

Immunogen	A synthesized peptide derived from human Tau
Isotype	Rabbit IgG
Form	Liquid
Concentration	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity-chromatography
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows:

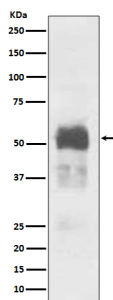
Boster Bio's internal QC testing used:

WB 1:1000-1:2000

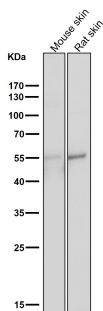
ICC/IF 1:50-1:200

FC 1:100

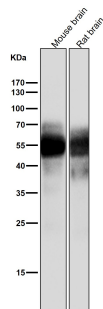
Anti-Tau MAPT Rabbit Monoclonal Antibody (M00097) Images



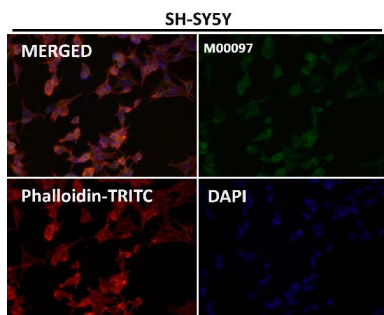
Western blot analysis of Tau expression in Mouse brain lysate.



All lanes use the Antibody at 1:5K dilution for 1 hour at room temperature.

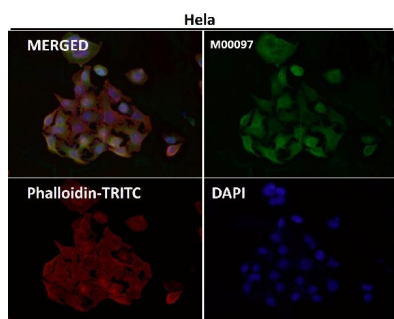
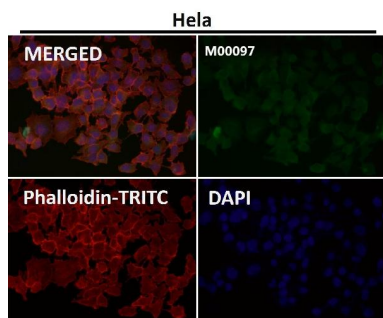


All lanes use the Antibody at 1:5K dilution for 1 hour at room temperature.

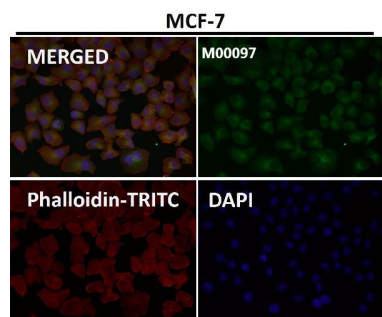


Immunofluorescent analysis using the Antibody at 1:150 dilution.

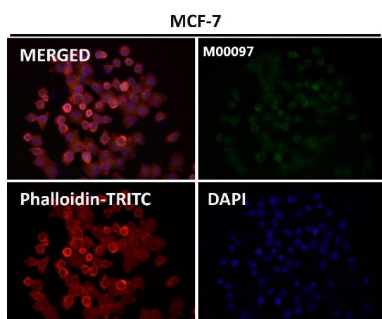
Immunofluorescent analysis using the Antibody at 1:150 dilution.



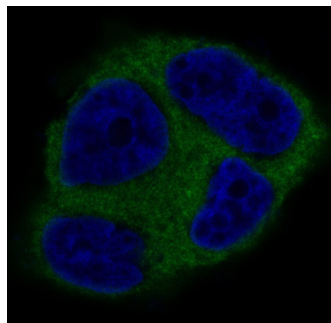
Immunofluorescent analysis using the Antibody at 1:50 dilution.



Immunofluorescent analysis using the Antibody at 1:50 dilution.



Immunofluorescent analysis using the Antibody at 1:150 dilution.



Immunofluorescent analysis of T-47D cells, using Tau Antibody.

8 Publications Citing This Product

1. PubMed ID: 32904483, Zhang YW, Li XQ, Tan WF, Fang B, Ma H. Postoperative 24-h Acute Sleep Deprivation Improves Learning and Memory Through Inhibition of Tau Phosphorylation in the Hippocampal Neurons of Splenectomized Rats. Nat Sci Sleep. 2020 Aug 24;12:603-613. doi:10.2147/NSS.S254
2. PubMed ID: 32930942, Guan Y, Chen X, Zhao B, Shi Y, Han F. What Happened in the Hippocampal Axon in a Rat Model of Posttraumatic Stress Disorder. Cell Mol Neurobiol. 2020 Sep 15. doi:10.1007/s10571-020-00960-w. Epub ahead of print. PMID:32930942.
3. PubMed ID: 28934273, Han F1, Zhuang TT1, Chen JJ1, Zhu XL1,2, Cai YF1, Lu YP1. PLoS One. 2017 Sep 21;12(9):e0185102. doi: 10.1371/journal.pone.0185102. eCollection 2017. Novel derivative of Paeonol, Paeonolsilatic sodium, alleviates behavioral damage and hippocampal ...

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