

Product Datasheet

Tau Antibody (E178) NB110-57615

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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NB110-57615

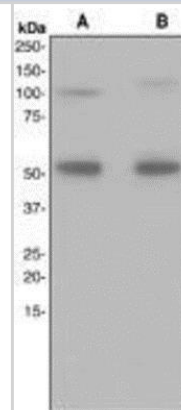
Tau Antibody (E178)

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	E178
Preservative	0.01% Sodium Azide
Isotype	IgG
Purity	Protein A or G purified
Buffer	49% PBS, 0.05% BSA and 50% Glycerol
Product Description	
Host	Rabbit
Gene ID	4137
Gene Symbol	MAPT
Species	Human, Mouse, Rat, Canine
Reactivity Notes	For Mouse and Rat this antibody is recommended for Western Blot only. Expected to cross react with cow.
Marker	pan-Neuronal Marker
Specificity/Sensitivity	Predicted to cross-react with bovine, based on sequence identity.
Immunogen	A synthetic peptide corresponding to residues 700-730 of human Tau was used as an immunogen.
Notes	Produced using Abcam's RabMab® technology. RabMab® technology is covered by the following U.S. Patents, No. 5,675,063 and/or 7,429,487.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000-10000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/Immunofluorescence 1:250, Immunoprecipitation 1:100, Immunohistochemistry-Paraffin 1:500

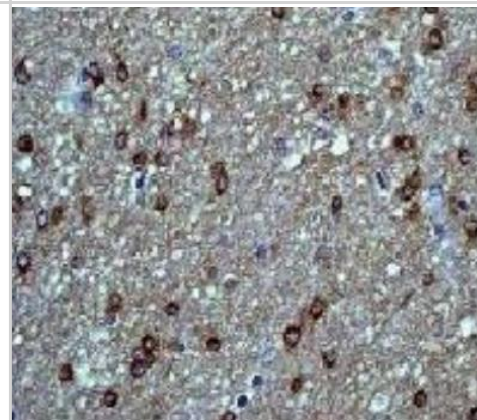


Images

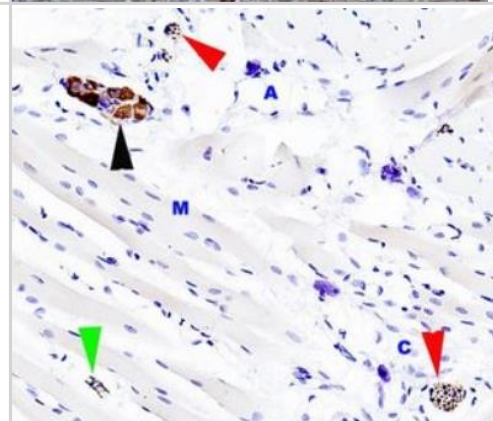
Western Blot: Tau Antibody (E178) [NB110-57615] - SH-SY5Y cell lysate, or (2) treated with Okadaic acid/Calyculin A.



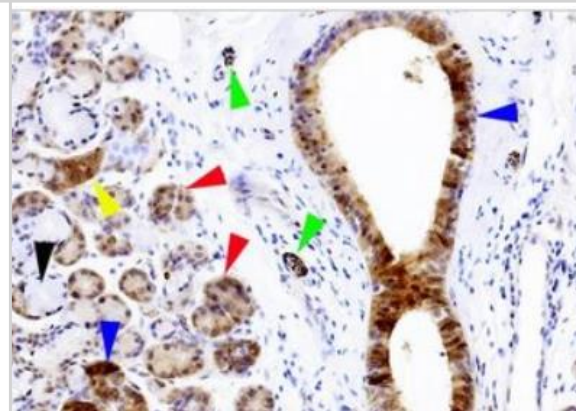
Immunohistochemistry-Paraffin: Tau Antibody (E178) [NB110-57615] - Human brain sections.



Immunohistochemistry-Paraffin: Tau Antibody (E178) [NB110-57615] - Rat tongue sections.



Immunohistochemistry-Paraffin: Tau Antibody (E178) [NB110-57615] - Human salivary gland sections.



Publications

Puri R, Suzuki T, Yamakawa K et al. Hyperphosphorylation and aggregation of Tau in laforin-deficient mice, an animal model for Lafora disease. J Biol Chem 2009 Aug [PMID: 19542233]

Yu CH, Song GS, Yhee JY, Kim JH, Im KS, Nho WG, Lee JH, Sur JH. Histopathological and immunohistochemical comparison of the brain of human patients with Alzheimer's disease and the brain of aged dogs with cognitive dysfunction. J Comp Pathol 145(1):45-58. 2011 Jul. [PMID: 21256508] (IHC, Human, Canine)



Procedures



Immunohistochemistry Protocol for Tau Antibody (NB110-57615)**Immunohistochemistry Protocol for Paraffin-embedded Tissues****1. Solutions and reagents****1.1. Xylene****1.2. Ethanol, anhydrous denatured, histological grade (100%, 95%, 70%)****1.3. Washing buffer:**

TBST washing buffer: 1XTBS/0.1% Tween-20

To prepare stock solution of 10X TBS: add 24.2 g Trizma base and 80 g sodium chloride to 1L of dH₂O. Adjust pH to 7.6.

Working solution. 1XTBST/0.1% Tween-20: add 100ml 10XTBS to 900 ml dH₂O. Add 1 ml Tween-20 and mix well.

1.4. Distilled water (dH₂O)**1.5. Antigen Retrieval Solution:**

0.01M Sodium Citrate Buffer, pH 6.0

To prepare stock solutions:

Solution A. 0.1 M citric acid solution: dissolve 21.0 g of citric acid, monohydrate (C₆H₈O₇·H₂O) in 1 liter of dH₂O.

Solution B. 0.1M sodium citrate solution: dissolve 29.4 g trisodium citrate dihydrate (C₆H₅Na₃O₇·2H₂O) in 1 liter of dH₂O.

Working solution: Add 9 ml of Stock solution A and 41 ml of stock solution B to 450 ml of dH₂O. Adjust pH to 6.0.

1.6. 3% Hydrogene Peroxide**1.7. Blocking buffer:**

PBS (Dulbeccos Phosphate Buffered Salts, 1X, catalog #21-031-CV from Mediatech, Inc.) + 10% serum (serum origin depends on the host of the secondary antibody)

1.8. Hematoxylin QS (catalog #H-3404 from Vector Laboratories, Inc.)**1.9. Permanent Mounting medium (VectaMount, catalog# H-5000 Vector Laboratories, Inc.)****2. Protocol****2.1. Deparaffinization/Rehydration****2.1.1. Heat slides in an oven at 65C for 1 hour.**

2.1.2. De-paraffinize/hydrate using the following series of washes: two Xylene washes (5 min each), followed by two 100% ethanol rinses (5 min each), followed by 95% ethanol, 70% ethanol, 50% ethanol, 30% ethanol, followed by H₂O and a TBST wash for 5 min on a shaker.

2.2. Antigen Retrieval

2.2.1. Immerse slides into staining dish containing Antigen Retrieval Solution.

2.2.2. Place covered staining dish into the rice cooker. Add 120 ml of dH₂O.

2.2.3. When cook is turned to warm (about 20 to 30 min), unplug the cooker and remove the staining dish to the bench top.

2.2.4. Allow to cool down, without cover, for 20 min.

2.3. Staining

2.3.1. Wash slides with TBST for 5 min on a shaker.

2.3.2. Inactivate endogenous peroxidase by covering tissue with 3% hydrogen peroxide for 10 min.

2.3.3. Wash slides three times with TBST (3 min each on a shaker).

2.3.4. Block slides with the blocking solution for 1 hour.

2.3.5. Dilute primary antibody in the blocking buffer per recommendation on the data sheet.

2.3.6. Apply primary antibody to each section and incubate overnight in the humidified chamber (4C).

2.3.7. Wash slides three times with TBST (3 min each on a shaker).

2.3.8. Apply to each section secondary HRP-conjugated anti-rabbit antibody diluted in the blocking solution per manufacturers recommendation; incubate for 1 hour at room temperature.

2.3.9. Wash slides three times with TBST (3 min each on a shaker).

2.3.10. Add freshly prepared DAB substrate to the sections.

2.3.11. Incubate tissue sections with the substrate at room temperature until suitable staining develops (generally 2 to 5 min).

2.3.12. Rinse sections with water.

2.3.13. Counterstain with Hematoxylin.

2.3.14. Rinse sections with water.

2.3.15. Dehydrate samples using two rinses with 100% Ethanol (20 dips per rinse) followed by two rinses with Xylene (30 dips per rinse).

2.3.16. Mount coverslips on slides using Permount medium.





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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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