# Product Datasheet

## Tau Antibody (TAU-5)
## NB200-514

Unit Size: 0.2 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

**Publications: 1**

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# NB200-514
Tau Antibody (TAU-5)

## Product Information

| | |
|---|---|
| **Unit Size** | 0.2 ml |
| **Concentration** | 0.5 mg/ml |
| **Storage** | Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles. |
| **Clonality** | Monoclonal |
| **Clone** | TAU-5 |
| **Preservative** | 0.9% Sodium Azide |
| **Isotype** | IgG1 |
| **Purity** | Protein A or G purified |
| **Buffer** | PBS (pH 7.4) |

## Product Description

| | |
|---|---|
| **Host** | Mouse |
| **Gene ID** | 4137 |
| **Gene Symbol** | MAPT |
| **Species** | Human, Mouse, Rat, Bovine, Primate, Sheep |
| **Reactivity Notes** | Cross-reacts with human, sheep, cow, mouse, and rat tau. Not yet tested in other species. |
| **Marker** | pan-Neuronal Marker |
| **Specificity/Sensitivity** | This antibody recognizes proteins of 45-68 kDa, identified as tau proteins. Tau proteins promote the assembly of tubulin monomers into microtubules and stabilize microtubules. Alternate splicing of tau mRNA, glycosylation, and differential phosphorylation contribute to the heterogeneity of tau. The TAU-5 monoclonal antibody reacts with the non-phosphorylated as well as the phosphorylated forms of tau. Its epitope is located in the middle region of tau. This antibody is highly specific for tau and does not cross-react with other microtubule associated proteins (MAPs) or tubulin. In immunohistology, this antibody intensely stains the human neurofibrillary tangles, neuropil threads, and neuritic plaques associated with Alzheimer's disease. This antibody is also observed to stain astrocytes. |
| **Immunogen** | Purified bovine microtubule-associated proteins. |

## Product Application Details

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|---|---|
| **Applications** | Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation |
| **Recommended Dilutions** | Western Blot 1/50 - 1/100, ELISA 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 1/25 - 1/50 |
| **Application Notes** | This antibody is suitable for use in Western blotting. The optimal antibody concentration should be determined for each specific application. |

## Publications

Ni JN, Shi J, Zhang XK et al. Effect of GAPT extract on expression of tau protein and its phosphorylation related enzymes in hippocampal neurons of APPV717I transgenic mice Chin J Integr Med 2017-06-20 [PMID: 28634862] (WB, Human)

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