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Datasheet for ABIN967493

anti-tau antibody

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Overview

Quantity:	0.1 mg
Target:	tau
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This tau antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Brand:	BD Pharmingen™
Clone:	TAU-5
Isotype:	IgG1
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.3. Please refer to us for technical protocols.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	tau
Alternative Name:	Tau (tau Products)
Background:	<p>Tau proteins are microtubule-associated proteins (MAPs) that are thought to function by stabilizing microtubules. They comprise a family of multiple polypeptides that originate from one gene. Alternate splicing of Tau mRNA and differential phosphorylation contribute to the heterogeneity of Tau. Typically, Tau proteins migrate between ~ 45-70 kDa with isoelectric points ranging from 6.5-8.0. Tau expression is widespread in the brain and is found in most cell types within the mammalian central nervous system. Tau has a complex biochemical nature that is partly due to its many isoforms. The number and molecular weights of Tau forms changes during brain development. Additionally, the molecular weights and forms of Tau proteins at a given point of development vary between species. Antibodies directed against different epitopes have been used to distinguish between Tau forms. The monoclonal antibody TAU-5 recognizes a phosphorylation-independent epitope on Tau proteins. The reduced molecular weight of Tau proteins may range between 45 kDa to 95 kDa. The TAU-5 antibody reacts with a phosphorylation-independent epitope in the middle of tau. It recognizes both the phosphorylated and non-phosphorylated form of Tau. The antibody has been characterized in rat tissue.</p>
Molecular Weight:	45-70 kDa

Application Details

Comment:	Related Products: ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Aqueous buffered solution containing ≤ 0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C

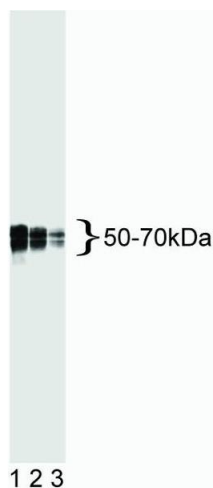
Handling

Storage Comment: Store undiluted at 4°C.

Publications

- Product cited in:
- Papasozomenos, Su: "Rapid dephosphorylation of tau in heat-shocked fetal rat cerebral explants: prevention and hyperphosphorylation by inhibitors of protein phosphatases PP1 and PP2A." in: **Journal of neurochemistry**, Vol. 65, Issue 1, pp. 396-406, (1995) ([PubMed](#)).
- Riederer, Binder: "Differential distribution of tau proteins in developing cat cerebellum." in: **Brain research bulletin**, Vol. 33, Issue 2, pp. 155-61, (1994) ([PubMed](#)).
- Watanabe, Takio, Hasegawa, Arai, Titani, Ihara: "Tau 2: a probe for a Ser conformation in the amino terminus of tau." in: **Journal of neurochemistry**, Vol. 58, Issue 3, pp. 960-6, (1992) ([PubMed](#)).
- Ksiezak-Reding, Binder, Yen: "Alzheimer disease proteins (A68) share epitopes with tau but show distinct biochemical properties." in: **Journal of neuroscience research**, Vol. 25, Issue 3, pp. 420-30, (1990) ([PubMed](#)).
- Papasozomenos, Binder: "Phosphorylation determines two distinct species of Tau in the central nervous system." in: **Cell motility and the cytoskeleton**, Vol. 8, Issue 3, pp. 210-26, (1988) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of Tau. A rat cortex lysate was probed with the mouse anti-rat Tau antibody at concentrations of 3.0 µg/mL (lane 1), 1.0 µg/mL (lane 2), and 0.5 µg/mL (lane 3). Tau is identified as bands between ~ 50-70 kDa.

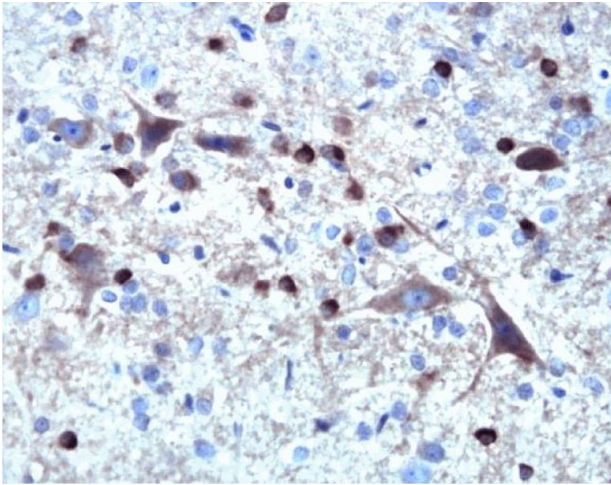


Image 2.

Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunohistochemical staining of Tau. A rat brain section was formalin-fixed and paraffin-embedded for staining with the mouse anti-rat Tau antibody. Investigators are encouraged to titrate between 10 $\mu\text{g/mL}$ to 0.032 $\mu\text{g/mL}$.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN967493.