

Purified anti-Tau Phospho (Ser396) Antibody (Previously Covance catalog# MMS-546P)

Catalog# / Size	829003 / 25 µL 829001 / 100 µL
Clone	PHF-13
Regulatory Status	RUO
Other Names	Microtubule-associated protein tau, PHF-tau, paired helical filament-tau, neurofibrillary tangle protein, microtubule-associated protein tau, isoform 4, G protein beta1/gamma2 subunit-interacting factor 1
Previously	Covance Catalog# MMS-546P
Isotype	Mouse IgG2b, κ
Description	Paired helical filaments (PHFs) are the major building blocks of neurofibrillary lesions in Alzheimer's disease brains and are composed of hyperphosphorylated tau protein. Predominantly expressed in axons, alternatively spliced forms of tau comprise a family of microtubule-associated proteins that normally promote and stabilize the assembly of microtubules. PHF-tau differs from normal tau by its abnormal hyperphosphorylation, which results in decreased binding of tau to microtubules. The decreased affinity of PHF-tau for microtubules, coupled with reduced levels of normal tau, destabilizes microtubules leading to an impairment of axonal transport, neuronal death and the aggregation of PHFs. Therefore, hyperphosphorylation of tau is believed to be a key event in the pathogenesis of Alzheimer's disease.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	The PHF-13 antibody was raised using PHF-tau preparations from human brain.
Formulation	Phosphate-buffered solution; no preservatives or carrier proteins.
Preparation	The antibody was purified by affinity chromatography.
Concentration	1 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Please note the storage condition for this antibody has been changed from -20°C to between 2°C and 8°C. You can also check your vial or your CoA to find the most accurate storage condition for this antibody.
Application	IHC-P - Quality tested WB - Reported in the literature, not verified in house
Recommended Usage	Each lot of this antibody is quality control tested by formalin-fixed paraffin-embedded immunohistochemical staining. For immunohistochemistry, a concentration range of 1 - 10 µg/mL is suggested. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	The PHF-13 antibody reacts with human tau phosphorylated at Ser 396.
Application References	1. Lasagna-Reeves CA, <i>et al.</i> 2012. <i>FASEB J.</i> (26):1946 (WB) PubMed 2. Lauretti E, <i>et al.</i> 2017. <i>Ann Clin Transl Neurol.</i> 4(8): 564 (WB, IHC-P) 3. Li JG, <i>et al.</i> 2017. <i>Sci Rep.</i> (7):46002 (WB, IHC-P) 4. Li JG, <i>et al.</i> 2014. <i>Ann Neurol.</i> 75(6):851 (WB, IHC-P)
(PubMed link indicates BioLegend citation)	
RRID	AB_2728540 (BioLegend Cat. No. 829003) AB_2564925 (BioLegend Cat. No. 829001)

Antigen Details

Biology Area	Cell Biology, Neurodegeneration, Neuroscience, Protein Misfolding and Aggregation
Molecular Family	Phospho-Proteins, Tau
Gene ID	4137

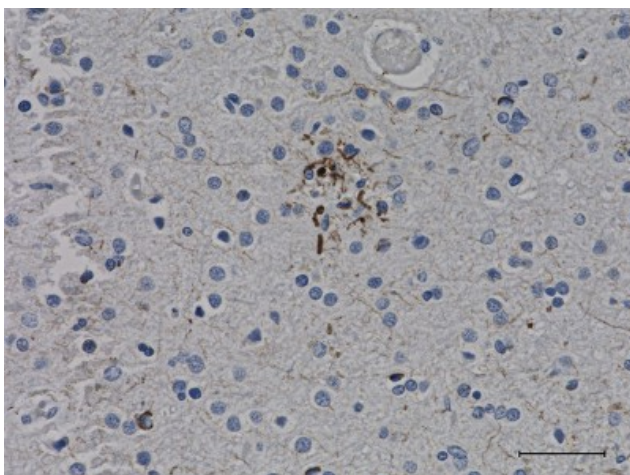
Related Protocols

[Immunohistochemistry Protocol for Paraffin-Embedded Sections](#)

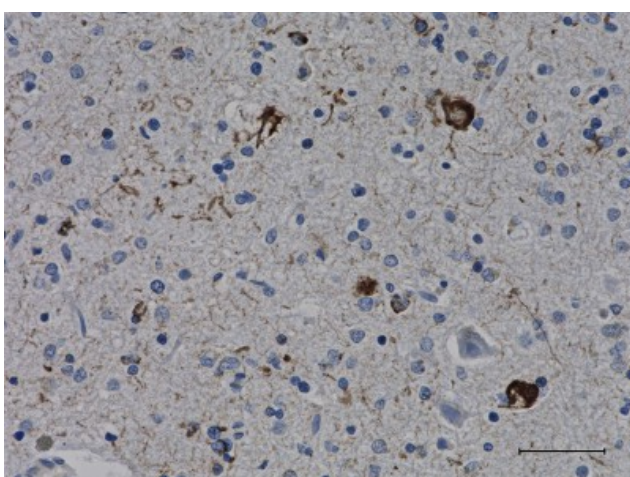
Other Formats

Purified anti-Tau Phospho (Ser396), Alexa Fluor® 647 anti-Tau Phospho (Ser396)

Product Data



IHC staining of purified anti-Tau Phospho (Ser396) antibody (clone PHF-13) on formalin-fixed paraffin-embedded human Alzheimer's disease brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R., the tissue was incubated with 1 µg/mL of the primary antibody for 60 minutes at room temperature. BioLegend's Ultra-Streptavidin (USA) HRP Detection Kit (Multi-Species, DAB, Cat. No. 929901) was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 40X objective. Scale bar: 50 µm



IHC staining of purified anti-Tau Phospho (Ser396) antibody (clone PHF-13) on formalin-fixed paraffin-embedded human Alzheimer's disease brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R., the tissue was incubated with 1 µg/mL of the primary antibody for 60 minutes at room temperature. BioLegend's Ultra-Streptavidin (USA) HRP kit (Multi-Species, DAB, Cat. No. 929901) was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 40X objective. Scale bar: 50 µm

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally

similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587