

Tau [pS199] ABfinity™ Recombinant Rabbit Monoclonal Antibody – Purified

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Rev. Date: 15 September 2011

Catalog Number: 701054

Store at 2–8°C

Clonality:	Monoclonal	Host/Class:	Rabbit IgG
Concentration:	0.5 mg/mL	Reactivity:	Human microtubule-associated protein tau
Quantity:	100 µg	Predicted Reactivity:	Human
Volume:	200 µL		

Product Description

Tau protein also known as microtubule associated protein (MAPT), plays a very important role in nucleation and stabilization of microtubules by associating with tubulin subunits. In humans, Tau is predominantly expressed in brain, and malfunction due to misfolding, and hyperphosphorylation results in self-assembly into tangles. Six isoforms of Tau with varying degree of affinity to tubulin exist, wherein the C-terminus of Tau (positively charged) associates with microtubule (negatively charged). Numerous serine/threonine kinases, including GSK-3β, protein kinase A (PKA), cyclin-dependent kinase 5 (cdk5) and casein kinase II (CK2), phosphorylate Tau. Phosphorylation of serine 199 is regulated by a number of enzymes. Phosphorylated serine 199 of Tau can be dephosphorylated by some protein phosphatases including protein phosphatase 2A and 2B. The gene encoding Tau protein contains 16 exons, and is located on chromosome 17q21.

Product Specifications

Immunogen:	Phosphopeptide corresponding to amino acids 193–203 of human microtubule-associated protein tau
Alternate Names:	MAPTL, DDPAC, MSTD, PPND
Apparent MW:	~56 kDa
Gene ID:	4137
Protein Accession No.:	P10636
Sequence Identity:	Human
Clone/PAD:	2H23L4
Lot:	See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Rat	Rat total brain lysate	0.5–2 µg/mL
Indirect ELISA	Human	Phosphopeptide	1.5×10 ⁻⁴ to 3 µg/mL

Storage and Handling

Store the antibody at 2–8°C for up to 1 month, or –20°C for long storage. Avoid repeated freezing and thawing.

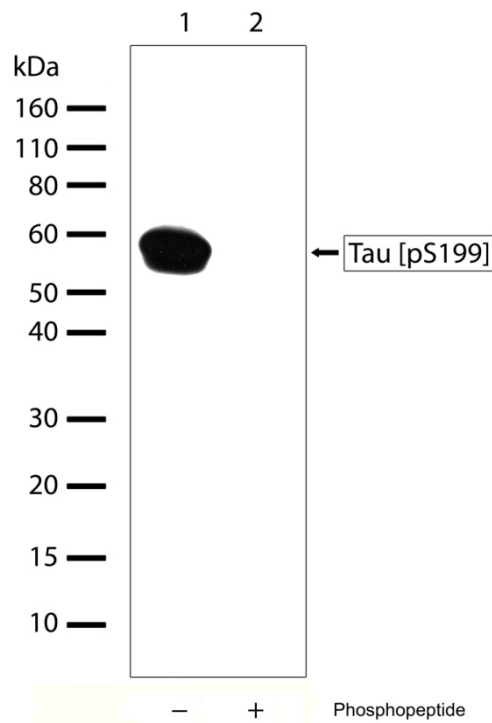


Figure 1 Western blot analysis of Tau [pS199] ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701054). Western blot analysis was performed on total rat brain lysate (lanes 1 and 2). A band corresponding to phosphorylated Tau at ~56 kDa was detected using Tau [pS199] ABfinity™ Recombinant Rabbit Monoclonal Antibody at a concentration of 1 µg/mL (lane 1). To confirm specificity, competition was performed with the phosphopeptide (lane 2).

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Stability

Expires one year from date of receipt when stored as instructed.

Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.

Safety Data Sheets (SDS)

Safety Data Sheets (SDSs) are available at www.invitrogen.com/sds.

Certificate of Analysis

The Certificate of Analysis provides detailed quality control and product qualification information for each product. Certificates of Analysis are available on our website. Go to www.invitrogen.com/support and search for the Certificate of Analysis by product lot number, which is printed on the box.

Related Products

Product Name	Quantity	Catalog No.
iBlot® Dry Blotting System	1 unit	IB1001
WesternBreeze™ Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze™ Chemiluminescent Kit, Anti-Rabbit	1 kit	WB7106
Goat anti-mouse (H+L), HRP conj.	1 mg	G21040
Goat anti-rabbit (H+L), HRP conj.	1 mg	G21234
Goat anti-mouse (H+L), AP conj.	1 mg	G21060
Goat anti-rabbit (H+L), AP conj.	1 mg	G21079
Nitrocellulose, 0.2 µm	20/pack	LC2000

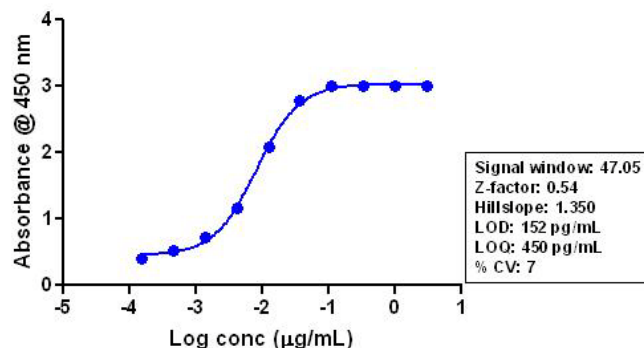


Figure 2 Indirect ELISA of Tau [pS199] ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701054). Indirect ELISA was performed using various dilutions of Tau [pS199] ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701054) to detect phospho Tau [pS199] peptide coated onto the plate. A non-linear regression analysis was performed (4 PL) and LOD and LOQ for the antibody was determined.

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

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