

Tau [pS199] Rabbit Recombinant Oligoclonal Antibody – Purified

Publication Part no. MAN0004993

Rev. Date: 21 August 2011

Catalog Number: 710124

Store at 2–8°C

Clonality: Oligoclonal
Concentration: 0.5 mg/mL
Quantity: 100 µg
Volume: 200 µL

Host/Class: Rabbit IgG
Reactivity: Human Tau protein
Predicted Reactivity: Human

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 the 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: 2HCLC
Lot: See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Rat	Rat total brain lysate	2–5 µg/mL
Indirect ELISA	Human	Phosphopeptide	1.5x10 ⁻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.

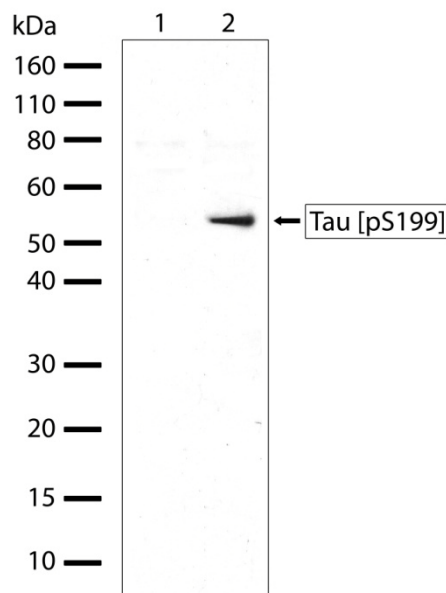


Figure 1 Western blot analysis of Tau [pS199] Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710124). Western blot analysis was performed on Rat total brain lysate (lanes 1 and 2). A band corresponding to phosphorylated Tau at ~56 kDa was detected using Tau [pS199] Rabbit Recombinant Oligoclonal Antibody at a concentration of 2.5 µg/mL (lane 2). To confirm specificity, competition was performed with the phosphopeptide (lane 1).

For research use only. Not for human or animal therapeutic or diagnostic use.

Manufacturing Site • 7335 Executive Way • Frederick • MD 21704 • E-mail: techsupport@invitrogen.com

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

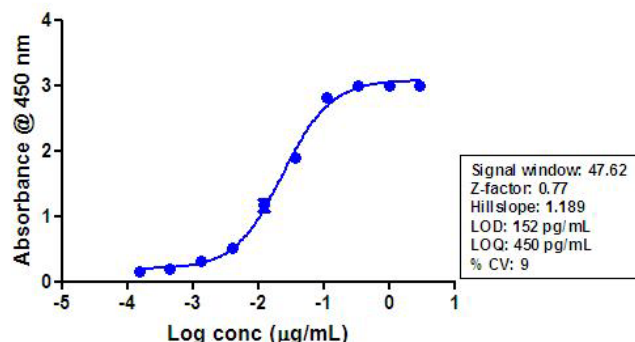


Figure 2 Indirect ELISA of Tau [pS199] Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710124). Indirect ELISA was performed using various dilutions of Tau [pS199] Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710124) to detect phospho Tau [pS199] peptide coated onto the plate. A non-linear regression 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.		

Limited Use Label License: Research Use Only

The purchase of this product conveys to the purchaser the limited, non-transferable right to use the purchased amount of the product only to perform internal research for the sole benefit of the purchaser. No right to resell this product or any of its components is conveyed expressly, by implication, or by estoppel. This product is for internal research purposes only and is not for use in commercial applications of any kind, including, without limitation, quality control and commercial services such as reporting the results of purchaser's activities for a fee or other form of consideration. For information on obtaining additional rights, please contact outlicensing@lifetech.com or Out Licensing, Life Technologies, 5791 Van Allen Way, Carlsbad, California 92008.

©2011 Life Technologies Corporation. All rights reserved. The trademarks mentioned herein are the property of Life Technologies Corporation or their respective owners.

For support visit www.invitrogen.com/support or email techsupport@invitrogen.com

www.lifetechnologies.com

life
technologies[™]