

## Tau (Hu) Rabbit Recombinant Oligoclonal Antibody – Purified

MAN0004405

Rev. Date: 21 May 2011

Catalog Number: 710080

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  
**Predicted Reactivity:** Human

### Product Description

Tau protein also known as Microtubule associated protein (MAPT), plays an important role in the nucleation and stabilization of microtubules. Six isoforms of Tau with varying degree of affinity to tubulin exist. In humans, Tau is predominantly expressed in the brain. Misfolding, hyperphosphorylation, and self-assembly of the Tau protein into tangles has been seen in cases of neurodegeneration. The gene encoding Tau protein is located on chromosome 17q21, and contains 16 exons.

### Product Specifications

**Immunogen:** Recombinant protein corresponding to amino acids 1–254 of human Tau  
**Alternate Names:** MAPTL  
**Apparent MW:** ~68 kDa  
**Gene ID:** 4137  
**Protein Accession No.:** P10636  
**Sequence Identity:** Human  
**Clone/PAD:** 6HCLC  
**Lot:** See product label

### Product Applications

Application	Species	Test Material	Concentration
Western Blotting	Human	Jurkat cells	2–5 µg/mL
ELISA	Human	Jurkat cells	5.0x10 <sup>-4</sup> to 10 µg/mL

### Storage and Handling

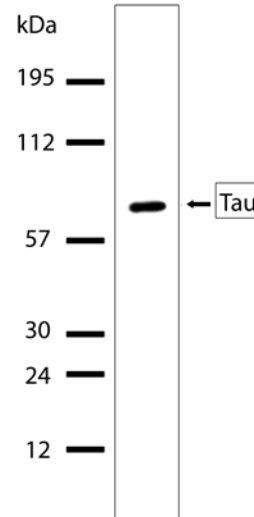
Store the antibody at 2–8°C for up to 1 month. Store at –20°C for long term storage. Avoid repeated freezing and thawing.

### Stability

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

### Storage Buffer

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



**Figure 1** Western Blot analysis of Tau (Hu) Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710080). Jurkat whole cell extract (80 µg) was run on SDS-PAGE, and transferred onto nitrocellulose. The blot was blocked, and incubated with Tau (Hu) Rabbit Recombinant Oligoclonal Antibody at 5 µg/mL, overnight at 4°C. HRP conjugated Goat Anti-Rabbit secondary antibody was used at a 1:2000 dilution, and the blot was developed by chemiluminescence (ECL). A band corresponding to Tau at ~68 kDa was detected.

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

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## Safety Data Sheets (SDS)

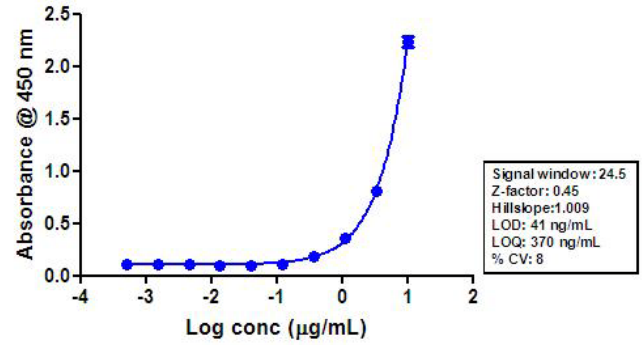
Safety Data Sheets (SDSs) are available at [www.invitrogen.com/sds](http://www.invitrogen.com/sds).

## 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](http://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 (Hu) Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710080). Indirect ELISA was performed using Tau (Hu) Rabbit Recombinant Oligoclonal Antibody to detect endogenous Tau protein present in the Jurkat whole cell lysate (300 ng/well). HRP conjugated Goat Anti-Rabbit secondary antibody was used at a 1:5000 dilution, and developed using TMB (Cat. no. SB01) as substrate.

### Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		<i>In vitro</i> 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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