

## ABfinity™ Tau [pS396] Recombinant Rabbit Oligoclonal Antibody

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Rev. 1.00

Catalog Number: 710298

Store at 2° to 8°C (short-term), or -20°C (long-term)

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

**Host/Class:** Rabbit IgG  
**Reactivity:** Human Tau [pS396]  
**Predicted Reactivity:** Human

### Product Description

Tau protein 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 is involved in neurodegeneration when the protein is misfolded, hyperphosphorylated, or self-assembles into tangles. Six isoforms of Tau with varying degree of affinity to tubulin exist. 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 the serine 396 residue is triggered through GSK-3beta and cdk5. The gene encoding the Tau protein consists of 16 exons, and is located at chromosomal locus 17q21.

### Product Specifications

**Immunogen:** Phosphopeptide corresponding to amino acids 392–400 of human Tau [pS396]  
**Alternate Names:** MAPTL (Microtubule Associated Protein), DDPAC, MSTD, PPND  
**Apparent MW:** ~76 kDa  
**Gene ID:** 4137  
**Protein Accession No.:** P10638  
**Sequence Identity:** Human  
**Sequence Homology:** Mouse, Rat, Rabbit, Monkey  
**Clone/PAD:** 5HCLC  
**Lot:** See product label

### Product Applications

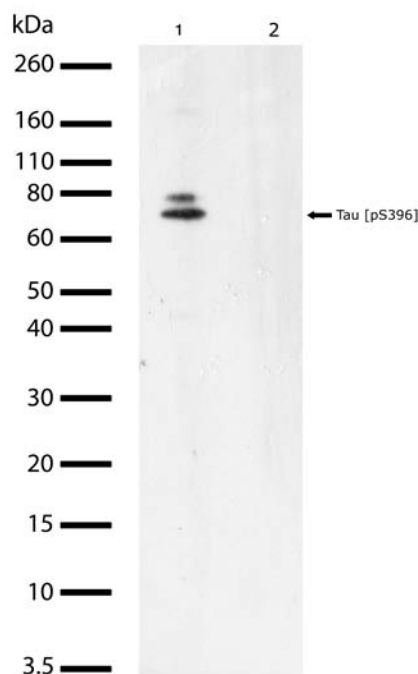
Application	Species	Test Material	Concentration
Immunocytochemistry	Human	HeLa cells	1–3 µg/mL
Western blotting	Rat	Rat brain lysate	2–3 µg/mL
Indirect ELISA	Rat	Rat brain lysate	1.5 × 10 <sup>-4</sup> to 3 µg/mL

### Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

### Storage and Handling

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



**Figure 1** Western blot analysis of ABfinity™ Tau [pS396] Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710298).

Western blot analysis was performed on rat brain lysate (lanes 1, 2). Endogenous levels of Tau [pS396] was detected at ~76 kDa using ABfinity™ Tau [pS396] Recombinant Rabbit Oligoclonal Antibody at a concentration of 2 µg/mL. To confirm specificity, competition was performed with the phosphopeptide to inhibit antibody binding (lane 2). The blot was developed using chemiluminescence (ECL) method.

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

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## Storage Buffer

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

**Caution:** Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Properly dispose of solutions containing sodium azide.

## Product Documentation

To obtain a Certificate of Analysis or Safety Data Sheets (SDSs), visit [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support).

## 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

### Explanation of symbols

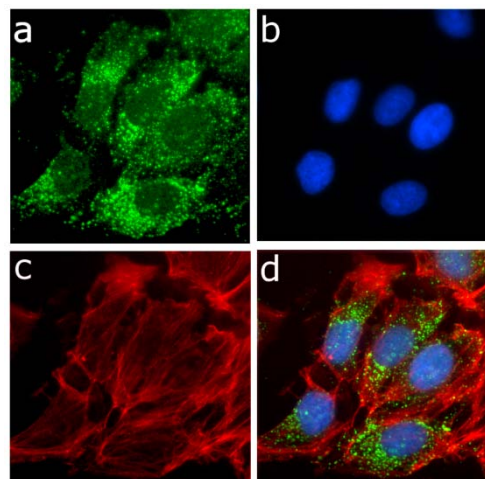
Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents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

## Limited Product Warranty

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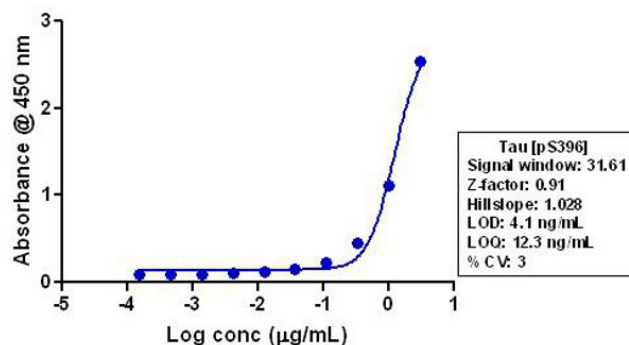
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**Figure 2** Immunocytochemistry analysis of ABfinity™ Tau [pS396] Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710298).

Immunocytochemistry analysis of HeLa cells stained with ABfinity™ Tau [pS396] Recombinant Rabbit Oligoclonal Antibody, using **a:** Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). **b:** DAPI stained HeLa nuclei (blue). **c:** Actin stained with Alexa Fluor® 594 phalloidin (red). **d:** Composite image of cells showing cytoplasmic localization of phosphorylated Tau.



**Figure 3** Indirect ELISA of ABfinity™ Tau [pS396] Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710298).

Indirect ELISA was performed using various dilutions of ABfinity™ Tau [pS396] Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710298) to detect Tau [pS396] on rat brain lysate coated onto the plate. A non-linear regression analysis was performed (4 PL) and LOD and LOQ for the antibody was determined.

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