

# PRODUCT SPECIFICATION

STATENS  
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## HYB 338-01 Anti Tau Protein

*Mouse monoclonal antibody*

<b>Article No.</b>	58114 (0.2 mL), 101078 (1.0 mL)										
<b>Product Name</b>	HYB 338-01 Anti Tau Protein										
<b>Clone</b>	7B8										
<b>Subclass</b>	IgG2a / Kappa										
<b>Description</b>	<b>Preparation:</b> Protein-A purified <b>Concentration:</b> 1 mg/mL $\pm$ 10%, based on A <sub>280</sub> . See Certificate of Analysis for details. <b>Solvent:</b> PBS, pH 7.2 – 7.4 <b>Storage:</b> -18 °C or colder										
<b>Antigen</b>	Tau is a protein found in several pathological intracellular inclusions in the brain including the neurofibrillary tangles (NFT), which are the most common tau inclusions. NFT are prevalent in Alzheimer's disease (AD) but are also seen in other disorders like Creutzfeld-Jakobs disease (CJD), head trauma and parkinsonism-dementia [1]. Tau levels in cerebrospinal fluid are elevated in AD, CJD, stroke, frontotemporal dementia and vascular dementia [2]. Tau in NFT is hyperphosphorylated. Tau and phospho-tau are diagnostic biomarkers for AD..										
<b>Immunogen</b>	N-terminal Tau peptide sequence with an additional cysteine at the C-terminal was coupled to S3 protein and used as immunogen.										
<b>Specificity</b>	The antibody is specific for Tau <sub>5-12</sub> .										
<b>Epitope Specificity</b>	This monoclonal antibody as well as the other monoclonal antibodies (HYB 338-02 to HYB 338-05) developed in this series all have the same epitope specificity.										
<b>Reactivity</b>	The antibody reacts specifically with the N-terminal Tau peptide and the Tau protein in ELISA. Not tested in chromatography.										
<b>Culture Medium</b>	Dulbecco's modified Eagle's medium with 10% fetal calf serum.										
<b>Fusion Partner</b>	X63-Ag8.653.										
<b>Immunization</b>	Female NMRI mice were immunized i.p. with immunogen.										
<b>Application</b>	<table border="1"><thead><tr><th>Method</th><th>Usability</th></tr></thead><tbody><tr><td>ELISA</td><td>yes</td></tr><tr><td>Flow cytometry</td><td>yes</td></tr><tr><td>Immunoblotting</td><td>nd</td></tr><tr><td>Immunofluorescence</td><td>nd.</td></tr></tbody></table>	Method	Usability	ELISA	yes	Flow cytometry	yes	Immunoblotting	nd	Immunofluorescence	nd.
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<b>References</b>	1) Buee,L., Bussiere,T., Buee-Scherrer,V., Delacourte,A., & Hof,P.R. (2000). Tau protein isoforms, phosphorylation and role in neurodegenerative disorders. Brain Res. Brain Res. Rev., 33, 95-130. 2) Hampel,H., Mitchell,A., Blennow,K., Frank,R.A., Brettschneider,S., Weller,L., & Moller,H.J. (2004). Core biological marker candidates of Alzheimer's disease - perspectives for diagnosis, prediction of outcome and reflection of biological activity. J. Neural Transm., 111, 247-272.										

### Conditions

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