PRODUCT SPECIFICATION

STATENS SERUM INSTITUT

HYB 338–01 Anti Tau Protein

Mouse monoclonal antibody

Article No.	58114 (0.2 mL), 101078 (1.0 mL)
Product Name	HYB 338-01 Anti Tau Protein
Clone	7B8
Subclass	IgG2a / Kappa
Description	**Preparation:** Protein-A purified **Concentration:** 1 mg/mL ± 10%, based on A_{280}. See Certificate of Analysis for details. **Solvent:** PBS, pH 7.2 – 7.4 **Storage:** -18 °C or colder
Antigen	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 phosho-tau are diagnostic biomarkers for AD..
Immunogen	N-terminal Tau peptide sequence with an additional cysteine at the C-terminal was coupled to S3 protein and used as immunogen.
Specificity	The antibody is specific for Tau_{5-12}.
Epitope Specificity	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.
Reactivity	The antibody reacts specifically with the N-terminal Tau peptide and the Tau protein in ELISA. Not tested in chromatography.
Culture Medium	Dulbecco's modified Eagle's medium with 10% fetal calf serum.
Fusion Partner	X63-Ag8.653.
Immunization	Female NMRI mice were immunized i.p. with immunogen.

Application

Method	Usability
ELISA	yes
Flow cytormetry	yes
Immunoblotting	nd
Immunofluorescence	nd.

References

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

For research use only. Not for use in diagnostic procedures. Not for therapeutic use or applications.

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