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Mouse Anti-human Thr212 Thr217 double phosphorylated Tau Antibody

Product Name: mAb anti-human Thr212 Thr217 double phosphorylated Tau | **Clone No.: 4H11** | **Lot No.:**

Catalogue No.: MO-M40100F | **Quantity: 0.5 mg/vial** | **Expiration:**

Description: Mouse monoclonal antibody (mAb) against human Thr212 Thr217 double phosphorylated Tau

Purification: Protein G affinity purified

Target Protein: Human Thr212 Thr217 double phosphorylated Tau.

Immunogen: KLH conjugated human Thr212 Thr217 double phosphorylated Tau peptide: CGTPGSRSR{pT}PSLP{pT}PPTREPKK. The peptide is corresponding to the amino acid sequence 204-225 on the phosphorylated Tau protein.

Fusion Myeloma: Sp2/0-Ag14

Specificity: The mAb reacts to human Thr212 Thr217 double phosphorylated Tau peptide CGTPGSRSR{pT}PSLP{pT}PPTREPKK. The reactivity with the unphosphorylated peptide CGTPGSRSRTPSLPTPPTREPKK was undetectable.

Species Reactivity: Human, mouse

Host / Isotype: Mouse/ IgG1, κ

Formulation: Lyophilized from a solution in 0.01M PBS pH7.2

Reconstitution: Double distilled water is recommended to adjust the final concentration to 1.00 mg/mL. Avoid repeated freeze and thaw cycle.

Storage: Store at -20°C

Research Area: Alzheimer's disease and other neurodegenerative diseases

Background: Tau is a highly soluble microtubule associated protein found in high concentration in neuron of central nervous system. The main function of the protein is stabilizing the microtubule in nerve fibre (axon). There are six tau isoforms which are formed by alternate splicing. Hyperphosphorylation of Tau protein results in aggregation and formation of neurofibrillary tangles, which is significantly associated with cognitive impairment in Alzheimer's disease. Thr217 phosphorylated Tau has been shown to be more useful as a plasma biomarker than Thr181 phosphorylated Tau. Research also suggested that phosphorylation at Thr212 and Thr217 improved the antigenicity of the peptide and that antibody targeting the double phosphorylation increased assay sensitivity.

Applications: **Indirect ELISA:** The antibody reacts with phosphorylated peptide CGTPGSRSR{pT}PSLP{pT}PPTREPKK coated ELISA plate in indirect ELISA.

References: If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

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