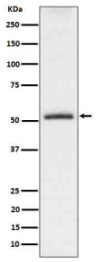
Phospho-Tau (pSer198) Antibody / MAPT [clone 31M15] (FY12053)

Catalog No.	Formulation	Size
FY12053	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA	100 ul

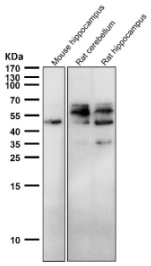
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	2-3 weeks
Species Reactivity	Human, Mouse, Rat
Format	Liquid
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	31M15
Purity	Affinity-chromatography
Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
UniProt	P10636
Applications	Western blot: 1:500-1:2000 Immunohistochemistry: 1:50-1:200 Immunoprecipitation: 1:50
Limitations	This Phospho-Tau (pSer198) antibody is available for research use only.



Western blot analysis of Phospho-Tau (pS198) expression in mouse hippocampus cell lysate. The expected molecular weight of phosphorylated Tau (pSer198) is approximately 45-70 kDa, corresponding to the major Tau isoforms, and lower molecular weight bands around ~35 kDa may represent truncated Tau fragments commonly observed in brain tissue.



All lanes use the Phospho-Tau (pSer198) antibody at 1:2K dilution for 1 hour at room temperature. The expected molecular weight of phosphorylated Tau (pSer198) is approximately 45-70 kDa, corresponding to the major Tau isoforms, and lower molecular weight bands around ~35 kDa may represent truncated Tau fragments commonly observed in brain tissue.

Description

Phospho-Tau (pSer198) antibody detects tau protein (MAPT) phosphorylated at serine 198, a modification associated with cytoskeletal regulation and neurodegeneration. Tau stabilizes microtubules in neurons, but abnormal phosphorylation weakens this interaction and promotes aggregation into neurofibrillary tangles, a hallmark of Alzheimer's disease and related tauopathies.

Research with Phospho-Tau (pSer198) antibody shows that phosphorylation at Ser198 occurs early in tau pathology and may precede other modifications. This residue is phosphorylated by kinases such as GSK-3beta and CDK5, linking it to pathways commonly dysregulated in Alzheimer's disease. Monitoring Ser198 phosphorylation provides insight into the progression of tau-driven neuronal dysfunction.

Antibodies specific for phospho-tau (Ser198) are validated for applications including western blot, immunohistochemistry, and immunofluorescence. These tools allow selective detection of phosphorylated tau, supporting studies of biomarker development and therapeutic strategies.

NSJ Bioreagents supplies this Phospho-Tau (pSer198) antibody for neurodegeneration and signal transduction research.

Application Notes

Optimal dilution of the Phospho-Tau (pSer198) antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human Phospho-Tau (pS198) was used as the immunogen for the Phospho-Tau (pSer198) antibody.

Storage

Store the Phospho-Tau (pSer198) antibody at -20oC.

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