



## Source

Monoclonal Anti-Human Phospho-Tau (Thr217) Antibody, Mouse IgM (6G7C8) is a Mouse monoclonal antibody produced from a hybridoma created by fusing SP2/0 myeloma and Mouse B-lymphocytes.

## Clone

6G7C8

## Species

Mouse

## Isotype

Mouse IgM | Mouse Kappa

## Conjugate

Unconjugated

## Antibody Type

Hybridoma Monoclonal

## Reactivity

Human

## Immunogen

Recombinant phosphorylated Tau217(pTau217) polypeptide.

## Specificity

Specifically recognizes Human p-Tau217 Protein.

## Application

Application	Recommended Usage
IF	1:50-1:200

## Purity

>95% as determined by SDS-PAGE.

## Purification

Protein A purified/ Protein G purified

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

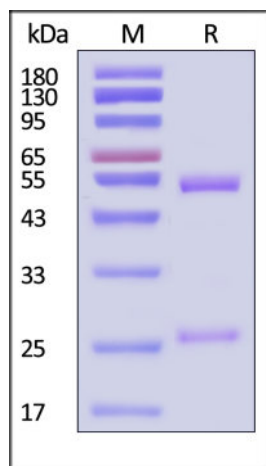
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE

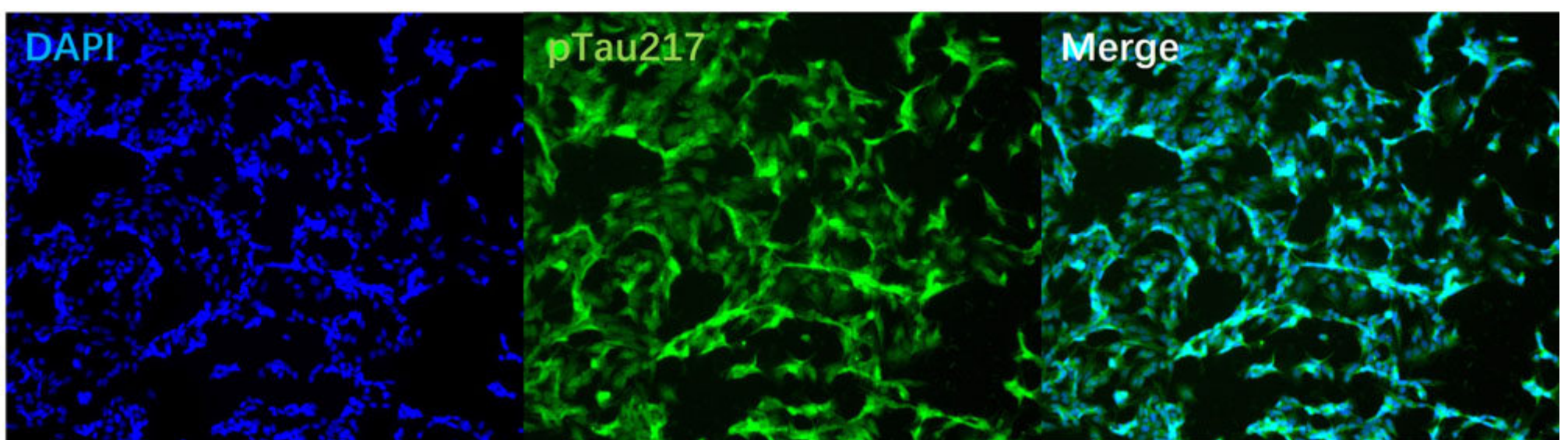
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Monoclonal Anti-Human Phospho-Tau (Thr217) Antibody, Mouse IgM (6G7C8) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Immunofluorescence



**2D cell staining:** Immunofluorescent staining (10X) of phosphorylated tau in treated SH-SY5Y neuroblastoma cells with purified PT7-Y2074 at 1:100 dilution. DAPI (blue) was used as nuclear counterstain.

## Background

Tau, the microtubule-associated protein, forms insoluble filaments that accumulate as neurofibrillary tangles in Alzheimer's disease (AD) and related tauopathies. Under physiological conditions, tau regulates the assembly and maintenance of the structural stability of microtubules. In the diseased brain, however, tau becomes abnormally hyperphosphorylated, which ultimately causes the microtubules to disassemble, and the free tau molecules aggregate into paired helical filaments.

## Clinical and Translational Updates

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