



**Source**

Monoclonal Anti-Human p-tau181 Antibody, Mouse IgG2a (8D8C10) is a Mouse monoclonal antibody recombinantly expressed from HEK293 cells.

**Clone**

8D8C10

**Species**

Mouse

**Isotype**

Mouse IgG2a | Mouse Kappa

**Conjugate**

Unconjugated

**Antibody Type**

Recombinant Monoclonal

**Reactivity**

Human

**Immunogen**

Recombinant polypeptide protein.

**Specificity**

Specifically recognizes Human p-tau181 Protein.

**Application**

Application	Recommended Usage
ELISA	0.3-313 ng/mL

**Purity**

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

**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**

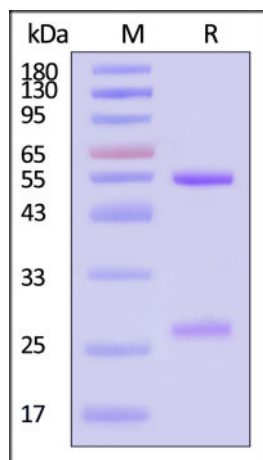
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

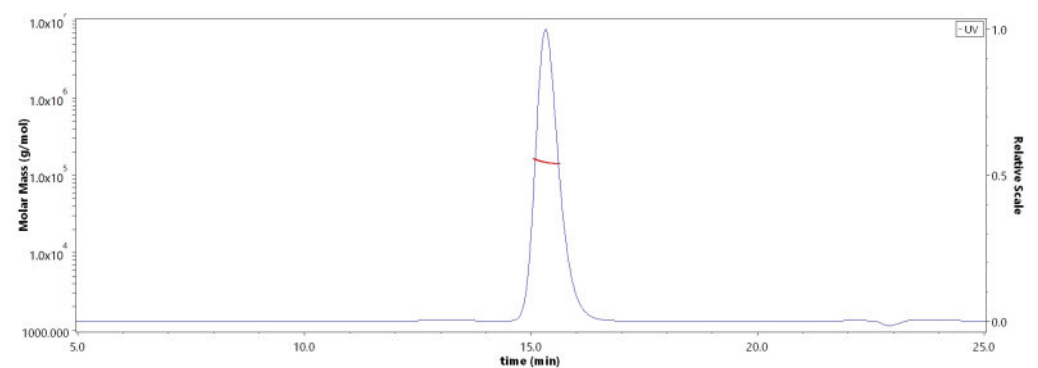
This product is stable after storage at:

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

**SDS-PAGE**



**SEC-MALS**



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# Monoclonal Anti-Human p-tau181 Antibody, Mouse IgG2a (8D8C10) (MALS verified)

Catalog # PT1-MY2073

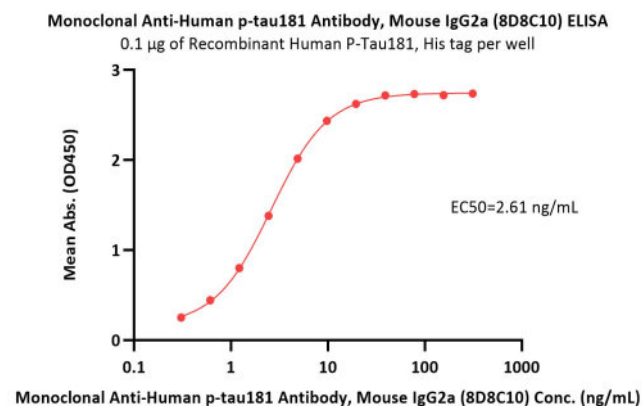


BIOSYSTEMS  
**Acro**

Monoclonal Anti-Human p-tau181 Antibody, Mouse IgG2a (8D8C10) 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](#)).

The purity of Monoclonal Anti-Human p-tau181 Antibody, Mouse IgG2a (8D8C10) (Cat. No. PT1-MY2073) is more than 90% and the molecular weight of this protein is around 135-165 kDa verified by SEC-MALS. [Report](#)

## Bioactivity-ELISA



Immobilized Recombinant Human P-Tau181, His tag at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-Human p-tau181 Antibody, Mouse IgG2a (8D8C10) (Cat. No. PT1-MY2073) with a linear range of 0.3-5 ng/mL (QC tested).

## 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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