

Tau Monoclonal Antibody (TAU-5)

Product Details	
Size	500 µL
Species Reactivity	Bovine, Human, Mouse, Sheep, Rat
Published Species	Rat, Mouse, Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	TAU-5
Conjugate	Unconjugated
Immunogen	Purified bovine microtubule-associated proteins
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_10980631

Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	57 Publications
Immunohistochemistry (IHC)	-	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100	1 Publication
Immunocytochemistry (ICC/IF)	2-3 µg/mL	4 Publications
ELISA (ELISA)	-	1 Publication
Immunoprecipitation (IP)	2 µg/mg protein lysate	4 Publications
Dot blot (DB)	-	2 Publications
Miscellaneous PubMed (Misc)	-	4 Publications

Product Specific Information

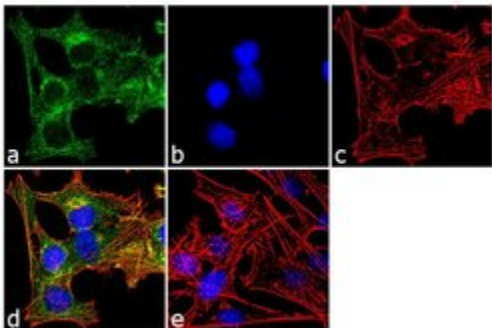
MA5-12808 targets TAU in immunofluorescence, immunoprecipitation, and Western blot applications and shows reactivity with Bovine, Human, mouse, Ovine, and Rat samples.

The MA5-12808 immunogen is purified bovine microtubule-associated proteins.

Product Images For Tau Monoclonal Antibody (TAU-5)

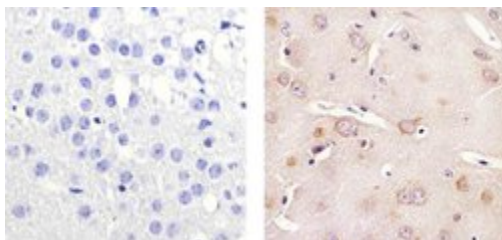
Tau Antibody (MA5-12808) in ICC/IF

Immunofluorescence analysis of TAU was done on 70% confluent log phase SH-SY5Y cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with TAU (TAU-5) Mouse Monoclonal Antibody (Product # MA5-12808) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d is a merged image showing cytoplasmic localization. Panel e is a no primary antibody control. The images were captured at 60X magnification.



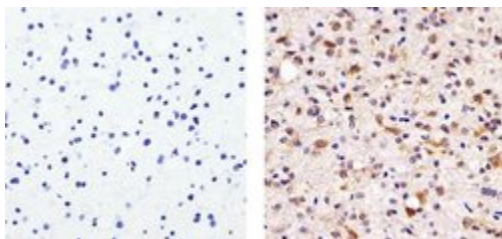
Tau Antibody (MA5-12808) in IHC (P)

Immunohistochemistry analysis of TAU (TAU-5) showing staining in the cytoplasm of paraffin-embedded mouse brain tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H₂O₂-methanol for 15 min at room temperature, washed with ddH₂O and PBS, and then probed with a TAU Antibody (TAU-5) Mouse Monoclonal Antibody (Product # MA5-12808) diluted in 3% BSA-PBS at a dilution of 1:100 for 1 hour at 37°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



Tau Antibody (MA5-12808) in IHC (P)

Immunohistochemistry analysis of TAU (TAU-5) showing staining in the cytoplasm of paraffin-embedded human astrogloma (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H₂O₂-methanol for 15 min at room temperature, washed with ddH₂O and PBS, and then probed with a TAU Antibody (TAU-5) Mouse Monoclonal Antibody (Product # MA5-12808) diluted in 3% BSA-PBS at a dilution of 1:100 for 1 hour at 37°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



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Western Blot (57)

Frontiers in neuroscience

Oxidative Stress Modifies the Levels and Phosphorylation State of Tau Protein in Human Fibroblasts.

"Published figure using Tau monoclonal antibody (Product # MA5-12808) in Western Blot"

Authors: Ibáñez-Salazar A, Bañuelos-Hernández B, Rodríguez-Leyva I, Chi-Ahumada E, Monreal-Escalante E, Jiménez-Capdeville ME, Rosales-Mendoza S

Species
Not Applicable

Dilution
Not Cited

Year
2020

Frontiers in molecular neuroscience

Effects of APOE Genotype on Brain Proteomic Network and Cell Type Changes in Alzheimer's Disease.

"MA5-12808 was used in Western Blotting to reveal alterations in the brain proteome and brain cell types associated with allelic variants in APOE, and suggest further areas for investigation into the upstream mechanisms that drive ApoE-associated risk for AD."

Authors: Dai J, Johnson ECB, Dammer EB, Duong DM, Gearing M, Lah JJ, Levey AI, Wingo TS, Seyfried NT

Species
Human

Dilution
1:1000

Year
2020

[View more WB references on thermofisher.com](#)

Immunohistochemistry (3)

The Journal of clinical investigation

Tau is not necessary for amyloid--induced synaptic and memory impairments.

"MA5-12808 was used in Immunohistochemistry to demonstrated that tau suppression did not protect against A-induced damage of long-term synaptic plasticity and memory, or from amyloid deposition."

Authors: Puzzo D, Argyrosi EK, Staniszewski A, Zhang H, Calcagno E, Zuccarello E, Acquarone E, Fa' M, Li Puma DD, Grassi C, D'Adamo L, Kanaan NM, Fraser PE, Arancio O

Species
Mouse

Dilution
1:500

Year
2020

Nature

NLRP3 inflammasome activation drives tau pathology.

"MA5-12808 was used in Immunohistochemistry to investigate the effect of the NLRP3 inflammasome on tau pathology."

Authors: Ising C, Venegas C, Zhang S, Scheiblich H, Schmidt SV, Vieira-Saecker A, Schwartz S, Albasset S, McManus RM, Tejera D, Griep A, Santarelli F, Brosseron F, Opitz S, Stunden J, Merten M, Kaye R, Golenbock DT, Blum D, Latz E, Buée L, Heneka MT

Species
Mouse

Dilution
1:500

Year
2019

[View more IHC references on thermofisher.com](#)

More applications with references on thermofisher.com

IHC (P) (1)

ICC/IF (4)

ELISA (1)

IP (4)

DB (2)

Misc (4)

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