

# Tau Monoclonal Antibody (TAU-5)

## Product Details

Size	100 µg
Species Reactivity	Bovine, Human, Mouse, Sheep, Rat
Published Species	Rat, Non-human primate, Bovine, Mouse, Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	TAU-5
Conjugate	Unconjugated
Immunogen	Purified bovine microtubule-associated proteins.
Form	Liquid
Concentration	0.5 mg/mL
Purification	purified
Storage buffer	PBS, pH 7.4
Contains	15mM sodium azide
Storage conditions	-20°C
RRID	AB_2536235

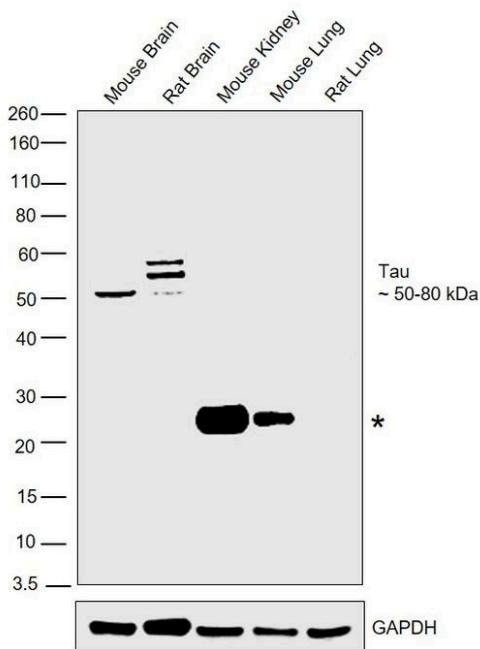
## Applications

## Tested Dilution

## Publications

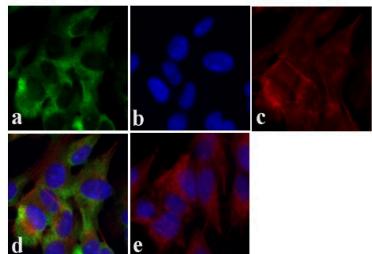
Western Blot (WB)	1:500	79 Publications
Immunohistochemistry (IHC)	-	11 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:20-1:200	-
Immunohistochemistry (Frozen) (IHC (F))	1:500	2 Publications
Immunocytochemistry (ICC/IF)	Assay-dependent	5 Publications
ELISA (ELISA)	-	2 Publications
Immunoprecipitation (IP)	Assay-dependent	5 Publications
in situ PLA (PLA)	-	1 Publication
Dot blot (DB)	-	1 Publication
Immunoelectrophoresis (IE)	-	1 Publication
Miscellaneous PubMed (Misc)	-	5 Publications

## Product Images For Tau Monoclonal Antibody (TAU-5)



### Tau Antibody (AHB0042)

Antibody specificity was demonstrated by detection of differential basal expression of the target across Mouse Brain, Rat Brain, Mouse Kidney, Mouse Lung, Rat Lung owing to their inherent genetic constitution. Relative expression of Tau was observed in Mouse and Rat Brain as compared to Kidney and Lung tissues using Anti-Tau Monoclonal Antibody (TAU-5) (Product # AHB0042) in Western Blot. {RE}



### Tau Antibody (AHB0042) in ICC/IF

Immunofluorescent analysis of Tau (Tau-5) was done on 70% confluent log phase SHSY5Y cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.25% Triton™ X-100 for 10 minutes, and blocked with 5% BSA for 1 hour at room temperature. The cells were labeled with Tau (Tau-5) Mouse Monoclonal Antibody (Product # AHB0042) at 1  $\mu$ g/mL in 1% BSA and incubated for 3 hours at room temperature and then labeled with Alexa Fluor 488 Rabbit Anti-Mouse IgG Secondary Antibody (Product # A-11059) at a dilution of 1:400 for 30 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 594 Phalloidin (Product # A12381). Panel d is a merged image showing cytoplasmic localization and panel e is a no primary antibody control. The images were captured at 20X magnification.

### Tau Antibody (AHB0042) in IHC (P)

Immunohistochemistry analysis of Tau showing staining in the cytoplasm and weak nuclear staining of paraffin-embedded human 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% H<sub>2</sub>O<sub>2</sub>-methanol for 15 min at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with a Tau (Product # AHB0042) diluted in 3% BSA-PBS at a dilution of 1:200 overnight at 4°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.

[View more figures on thermofisher.cn](http://thermofisher.cn)

## 112 References

### Western Blot (79)

#### Aging

#### Longitudinal characterization of behavioral, morphological and transcriptomic changes in a tauopathy mouse model.

"AHB0042 was used in Western Blot to elucidate how brain dysfunction proceeds in neurodegenerative disorders by performing longitudinal characterization of behavioral, morphological, and transcriptomic changes in a tauopathy mouse model, P301S transgenic mice."

Authors: Cao Q,Kumar M,Frazier A,Williams JB,Zhao S,Yan Z

Year  
2023

Species  
Mouse

#### British journal of pharmacology

#### High salt induces cognitive impairment via the interaction of the angiotensin II-AT<sub>1</sub> and prostaglandin E2-EP<sub>1</sub> systems.

"AHB0042 was used in Western Blotting to suggest that the interaction of Ang II-AT1 receptor and PGE2-EP1 receptor systems could be novel therapeutic targets for hypertension-induced cognitive impairment."

Authors: Kubota H,Kunisawa K,Wulaer B,Hasegawa M,Kurahashi H,Sakata T,Tezuka H,Kugita M,Nagao S,Nagai T,Furyayashiki T,Narumiya S,Saito K,Nabeshima T,Mouri A

Year  
2023

Species  
Mouse

Dilution  
1:1,000

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

### Immunohistochemistry (11)

#### Frontiers in aging neuroscience

#### Uncovering tau in wasteosomes (*corpora amylacea*) of Alzheimer's disease patients.

"AHB0042 was used in Immunohistochemistry-immunofluorescence to reanalyze the presence of tau protein in wasteosomes and point out a methodological problem when immunolabeling."

Authors: Riba M,Del Valle J,Romera C,Alsina R,Molina-Porcel L,Pelegrí C,Vilaplana J

Year  
2023

Species  
Human

Dilution  
1:200

#### Biomolecules

#### Spreading of P301S Aggregated Tau Investigated in Organotypic Mouse Brain Slice Cultures.

"AHB0042 was used in Western Blotting and Immunohistochemistry to examine the spreading of P301S aggregated tau, a mutation that is implicated in tauopathies, using organotypic slice cultures."

Authors: Korde DS,Humpel C

Year  
2022

Species  
Mouse

Dilution  
1:1,000

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

### More applications with references on [thermofisher.cn](#)

[IHC \(F\) \(2\)](#) [ICC/IF \(5\)](#) [ELISA \(2\)](#) [IP \(5\)](#) [PLA \(1\)](#) [DB \(1\)](#) [IE \(1\)](#) [Misc \(5\)](#)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.