

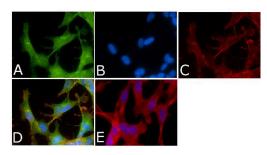


Phospho-Tau (Ser214) Polyclonal Antibody

Product Details		
Size	100 μL	
Species Reactivity	Human, Mouse, Rat	
Published Species	Dog, Tag, Rat, Cat, Human, Mouse	
Host/Isotype	Rabbit / IgG	
Class	Polyclonal	
Туре	Antibody	
Conjugate	Unconjugated	
Immunogen	The antiserum was produced against a chemically synthesized phosphopeptide derived from the region of human Tau that contains serine 214. The sequence is conserved in many species including mouse, rat, rhesus monkey, baboon, cow and goat.	
Form	Liquid	
Purification	Antigen affinity chromatography	
Storage buffer	Dulbecco's PBS, pH 7.3, with 1mg/mL BSA	
Contains	0.05% sodium azide	
Storage conditions	-20°C	
RRID	AB_2533740	

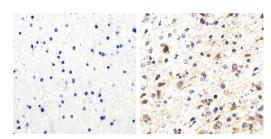
Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	17 Publications
Immunohistochemistry (IHC)	-	5 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:20-1:200	3 Publications
Immunocytochemistry (ICC/IF)	1 μg/mL	-
ELISA (ELISA)	-	1 Publication
Immunoprecipitation (IP)	-	1 Publication
Dot blot (DB)	-	1 Publication
Miscellaneous PubMed (Misc)	-	2 Publications

Product Images For Phospho-Tau (Ser214) Polyclonal Antibody



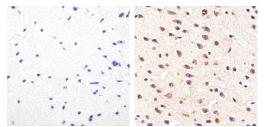
Phospho-Tau (Ser214) Antibody (44-742G) in ICC/IF

Immunofluorescent analysis of Phospho-Tau pSer214 Antibody 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 Phospho-Tau pSer214 Antibody (Product # 44-742G) at 1µg /mL in 1% BSA and incubated for 3 hours at room temperature and then labeled with Alexa Fluor 488 Goat Anti-Rabbit IgG Secondary Antibody (Product # A-11008) at a dilution of 1:400 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 594 Phalloidin (Product # A12381). Panel d is a merged image showing nuclear and cytoplasmic localization. Panel e is a no primary antibody control. The images were captured at 40X magnification.



Phospho-Tau (Ser214) Antibody (44-742G) in IHC (P)

Immunohistochemistry analysis of Phospho-Tau (pS214) showing staining in the cytoplasm of paraffin-embedded human astroglioma 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 Phospho-Tau (pS214) polyclonal antibody (Product # 44-742G) diluted in 3% BSA-PBS at a dilution of 1:100 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.



Phospho-Tau (Ser214) Antibody (44-742G) in IHC (P)

Immunohistochemistry analysis of Phospho-Tau (pS214) 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 Phospho-Tau (pS214) polyclonal antibody (Product # 44-742G) diluted in 3% BSA-PBS at a dilution of 1:100 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.com

□ 30 References

Western Blot (17)

CNS neuroscience & therapeutics

Tau antibody 77G7 targeting microtubule binding domain suppresses proteopathic tau to seed tau aggregation.

"44-742G was used in Immunohistochemistry and Western Blotting to indicate that 77G7 can effectively suppress the seeding activity of AD O-tau and thus could be developed as a potential immunotherapeutic drug to inhibit the propagation of tau pathology in AD and related tauopathies."

Authors: Li L, Miao J, Chu D, Jin N, Tung YC, Dai CL, Hu W, Gong CX, Iqbal K, Liu F

Year 2022

Species Mouse

Frontiers in aging neuroscience

Relevance of Phosphorylation and Truncation of Tau to the Etiopathogenesis of Alzheimer's Disease.

"Published figure using Phospho-Tau (Ser214) polyclonal antibody (Product # 44-742G) in Western Blot" Authors: Zhou Y,Shi J,Chu D,Hu W,Guan Z,Gong CX,Iqbal K,Liu F

Year 2022

Species Human

Dilution 1:200

View more WB references on thermofisher.com

Immunohistochemistry (5)

CNS neuroscience & therapeutics

Tau antibody 77G7 targeting microtubule binding domain suppresses proteopathic tau to seed tau aggregation.

"44-742G was used in Immunohistochemistry and Western Blotting to indicate that 77G7 can effectively suppress the seeding activity of AD O-tau and thus could be developed as a potential immunotherapeutic drug to inhibit the propagation of tau pathology in AD and related tauopathies."

Authors: Li L, Miao J, Chu D, Jin N, Tung YC, Dai CL, Hu W, Gong CX, Iqbal K, Liu F

Year 2022

Species Mouse

Frontiers in aging neuroscience

Enriched environment ameliorates propagation of tau pathology and improves cognition in rat model of tauopathy.

"44-742G was used in Immunohistochemistry to show that EE seems to be able to slow down tau pathology progression, indicating the possible utility of similar interventions in early stages of AD where tangle loads are still low."

Authors: Mate V,Smolek T,Kazmerova ZV,Jadhav S,Brezovakova V,Jurkanin B,Uhrinova I,Basheer N,Zilka N,Katina S, Novak P

Year 2022

Species Rat

Dilution 1:1000

View more IHC references on thermofisher.com

More applications with references on thermofisher.com

IHC (P) (3) ELISA (1) IP (1) DB (1) Misc (2)

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 place in the Documentation of the suitability for use in claim of suitability for use in claim of suitability for use in claim of suitability for use in 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 IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NOI INFRINGEMENT.

BUYER'S EXCLUSIVE REMEDY FOR NON-CORPORMING PRODUCTS DURING HE WARRANTY PERFIOI DIS LIMITED. A REPLAY REPLAY EXPRESS OR REPLAY AND A REPLAY REPLAY