

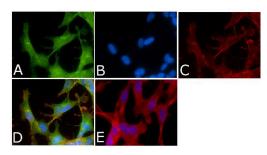


Phospho-Tau (Ser214) Polyclonal Antibody

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	

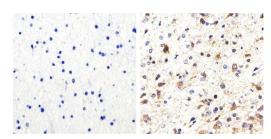
Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	16 Publications
Immunohistochemistry (IHC)	-	4 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:20-1:200	3 Publications
Immunocytochemistry (ICC/IF)	1 μg/mL	-
ELISA (ELISA)	-	1 Publication
Immunoprecipitation (IP)	-	1 Publication
Dot blot (DB)	-	1 Publication
Miscellaneous PubMed (Misc)	-	2 Publications

Product Images For Phospho-Tau (Ser214) Polyclonal Antibody



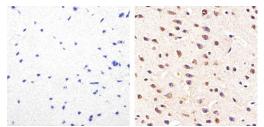
Phospho-Tau (Ser214) Antibody (44-742G) in ICC/IF

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

□ 28 References

Western Blot (16)

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

Acta neuropathologica

Genome-wide association study and functional validation implicates JADE1 in tauopathy.

"44-742G was used in Western Blotting to investigate if Primary age-related tauopathy has a genetic architecture that partially overlaps with Alzheimer disease and other tauopathies and suggests a novel role for JADE1 as a modifier of neurofibrillary degeneration."

Authors: Farrell K,Kim S,Han N,Iida MA,Gonzalez EM,Otero-Garcia M,Walker JM,Richardson TE,Renton AE,Andrews SJ,Fulton-Howard B,Humphrey J,Vialle RA,Bowles KR,de Paiva Lopes K,Whitney K,Dangoor DK,Walsh H,Marcora E, Hefti MM,Casella A,Sissoko CT,Kapoor M,Novikova G,Udine E,Wong G,Tang W,Bhangale T,Hunkapiller J,Ayalon G, Graham RR,Cherry JD,Cortes EP,Borukov VY,McKee AC,Stein TD,Vonsattel JP,Teich AF,Gearing M,Glass J,Troncoso JC,Frosch MP,Hyman BT,Dickson DW,Murray ME,Attems J,Flanagan ME,Mao Q,Mesulam MM,Weintraub S,Woltjer RL, Pham T,Kofler J,Schneider JA,Yu L,Purohit DP,Haroutunian V,Hof PR,Gandy S,Sano M,Beach TG,Poon W,Kawas CH, Corrada MM,Rissman RA,Metcalf J,Shuldberg S,Salehi B,Nelson PT,Trojanowski JQ,Lee EB,Wolk DA,McMillan CT, Keene CD,Latimer CS,Montine TJ,Kovacs GG,Lutz MI,Fischer P,Perrin RJ,Cairns NJ,Franklin EE,Cohen HT,Raj T, Cobos I,Frost B,Goate A,White Iii CL,Crary JF

Year 2022

Species Human

Dilution 1:1000

View more WB references on thermofisher.com

Immunohistochemistry (4)

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

Cell reports

Tau-Mediated Disruption of the Spliceosome Triggers Cryptic RNA Splicing and Neurodegeneration in Alzheimer's Disease.

"Published figure using Phospho-Tau (Ser214) polyclonal antibody (Product # 44-742G) in Immunohistochemistry"

Authors: Hsieh YC,Guo C,Yalamanchili HK,Abreha M,Al-Ouran R,Li Y,Dammer EB,Lah JJ,Levey Al,Bennett DA,De Jager PL,Seyfried NT,Liu Z,Shulman JM

Year 2019

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 depletions 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 imited 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 IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT.

BUYER'S EXCLUSIVE REMEDY FOR NON-CORPORMING PRODUCTS DURING IT WARRANTIES OR DEPAIR, REPLACE OR REFUND FOR THE NON-CONFORMING PRODUCTS, SI AT SELECTIVE SOLE OPTION, THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR THE NON-CONFORMING PRODUCTS, SI AT SELECTIVE SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR THE 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, or vary or in vivo therapeutic uses, or any type of consumption to