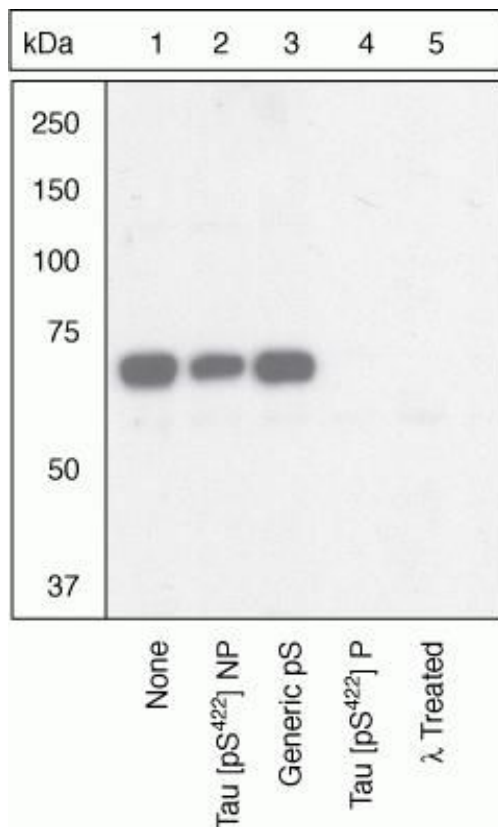


Phospho-Tau (Ser422) Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human
Published Species	Tag, Mouse, Human
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	The antiserum was produced against a chemically synthesized phosphopeptide derived from a region of human Tau that contains serine 422. The sequence is conserved in mouse and rat.
Form	Liquid
Purification	Antigen affinity chromatography
Storage buffer	Dulbecco's PBS, pH 7.3, with 50% glycerol, 1mg/mL BSA
Contains	0.05% sodium azide
Storage Conditions	-20°C
RRID	AB_2533748

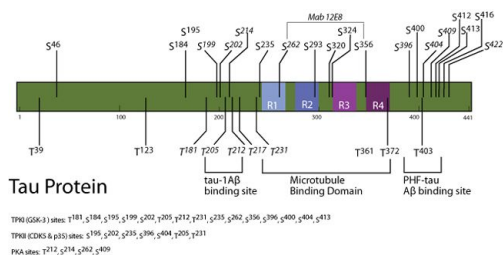
Applications	Tested	Dilution	Published
Western Blot (WB)	✓	1:1000	8 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1:2000	2 Publications
Immunohistochemistry (IHC)	-		3 Publications
Immunohistochemistry - Free Floating (IHC (Free))	-	1:250	1 Publication
ELISA (ELISA)	-		1 Publication

Product Images For Phospho-Tau (Ser422) Polyclonal Antibody



Phospho-Tau (Ser422) Antibody (44-764G) in WB

Up-regulation and Antibody-Peptide Competition. Human recombinant Tau stimulated with GSK-3 (1 μ g per μ g Tau) for 45 minutes was added to background extracts, resolved by SDS-PAGE on a 10% Tris-glycine gel and transferred to PVDF. The membrane was blocked with a 5% BSA-TBST buffer for one hour at room temperature and either left untreated (1-4) or treated with lambda phosphatase (5), then incubated with the Tau (pS422) antibody in a 3% BSA-TBST buffer for two hours at room temperature, following prior incubation with: no peptide (1, 5), the non-phosphopeptide corresponding to the phosphopeptide immunogen (2), a generic phosphoserine-containing peptide (3), or the phosphopeptide immunogen (4). After washing, the membrane was incubated with goat F (ab')₂ anti-rabbit IgG HRP conjugate (Product # ALI4404) and signals were detected using the Pierce SuperSignal™ method. The data show that only the phosphopeptide corresponding to Tau (pS422) blocks the antibody signal, demonstrating the specificity of the antibody. The data also show that phosphatase stripping eliminates the signal, verifying that the antibody is phospho-specific. (Product # 44-764G)



Phospho-Tau (Ser422) Antibody (44-764G)

Tau Protein Schematic

View more figures on thermofisher.com

15 References

Western Blot (8)

Molecular psychiatry

Functional screening of Alzheimer risk loci identifies PTK2B as an in vivo modulator and early marker of Tau pathology.

"44-764G was used in western blot to identify PTK2B as an in vivo modulator and early marker of Tau pathology due to functional screening of Alzheimer risk loci"

Authors: Dourlen P, Fernandez-Gomez FJ, Dupont C, Grenier-Boley B, Bellenguez C, Obriot H, Caillierez R, Sottejeau Y, Chapuis J, Bretteville A, Abdelfettah F, Delay C, Malmanche N, Soininen H, Hiltunen M, Galas MC, Amouyel P, Sergeant N, Buée L, Lambert JC, Dermaut B

Species
Not Applicable

Dilution
Not Cited

Year
2017

Journal of neurochemistry

Rab7A regulates tau secretion.

"Published figure using Phospho-Tau (Ser422) polyclonal antibody (Product # 44-764G) in Western Blot"

Authors: Rodriguez L, Mohamed NV, Desjardins A, Lippé R, Fon EA, Leclerc N

Species
Not Applicable

Dilution
Not Cited

Year
2017

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

Immunohistochemistry (Paraffin) (2)

Nature communications

The neuritic plaque facilitates pathological conversion of tau in an Alzheimer's disease mouse model.

"44-764G was used in immunohistochemistry - paraffin section to elucidate the pathological conversion of tau facilitated by the neuritic plaque in an Alzheimer's disease mouse model"

Authors: Li T, Braunstein KE, Zhang J, Lau A, Sibener L, Deeble C, Wong PC

Species
Not Applicable

Dilution
Not Cited

Year
2016

Science (New York, N.Y.)

Formation of neurofibrillary tangles in P301I tau transgenic mice induced by Abeta 42 fibrils.

"44-764G was used in immunohistochemistry - paraffin section to assess induction by Abeta 42 fibrils on the formation of neurofibrillary tangles in P301I tau transgenic mice"

Authors: Götz J, Chen F, van Dorpe J, Nitsch RM

Species
Not Applicable

Dilution
1:50

Year
2001

More applications with references on thermofisher.com

IHC (3)

IHC (Free) (1)

ELISA (1)

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 OF 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.