

Phospho-Tau (Thr217) Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Peptide sequence around phosphorylation site of threonine 217(L-P-T(p)-P-P) derived from Human Tau.
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.4, with 50% glycerol
Contains	0.02% sodium azide
Storage conditions	-20°C
RRID	AB_2554247

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:1,000	-
Immunocytochemistry (ICC/IF)	1:200	-

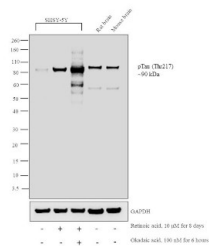
Product Specific Information

A suggested positive control for Western blot is HepG2 cells.

Product Images For Phospho-Tau (Thr217) Polyclonal Antibody

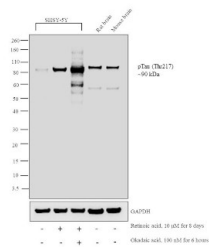
Phospho-Tau (Thr217) Antibody (PA5-37639) in WB

Western blot analysis was performed on Whole cell extracts (30 µg lysate) of SHSY-5Y (Lane 1), SHSY-5Y treated with Retinoic Acid (10uM for 8 days) (Lane 2), SHSY-5Y differentiated with Retinoic Acid and treated with Okadaic Acid (100 nM for 6 hr) (Lane 3), Rat brain (Lane 4) and Mouse brain (Lane 5). The blot was probed with Anti-pTau (Thr 217, Thr534) Monoclonal Antibody (Product # PA5-37639, 1:1,000 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4,000 dilution). A 90 kDa band corresponding to pTau (Thr 217, Thr 534) was observed at basal level in SHSY-5Y (Lane 1), at higher levels in Retinoic Acid-differentiated SHSY-5Y cells without or with subsequent Okadaic Acid treatment (Lanes 2 and 3) and in Rat and Mouse brain (Lanes 4 and 5).



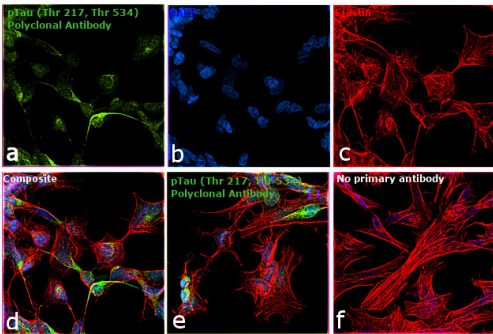
Phospho-Tau (Thr217) Antibody (PA5-37639)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot using pTau (Thr 217) Polyclonal Antibody (Product # PA5-37639), shows induced phosphorylation of Tau protein in SHSY-5Y cell line upon Retinoic acid treatment and increase in the level of phosphorylation upon Okadaic acid treatment. {TM}



Phospho-Tau (Thr217) Antibody (PA5-37639) in ICC/IF

Immunofluorescence analysis of PhosphoTau (Thr217, Thr534) was performed using 70% confluent log phase SH-SY5Y cells untreated or differentiated with 100 nM Retinoic acid for 8 days. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with PhosphoTau (Thr217, Thr534) Polyclonal Antibody (Product # PA5-37639) at 1: 200 dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2,000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing plasma membrane and cytoskeletal localization. Panel e shows untreated cells with less signal. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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