

Phospho-Tau (Thr181) Monoclonal Antibody (AT270)

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Rat, Fruit fly, Non-human primate, Hamster, Human, Mouse, Chicken
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	AT270
Conjugate	Unconjugated
Immunogen	Partially purified human PHF-Tau
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	no preservative
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_223651

Applications	Tested Dilution	Publications
Western Blot (WB)	1-5 µg/mL	73 Publications
Immunohistochemistry (IHC)	-	20 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1-5 µg/mL	2 Publications
Immunocytochemistry (ICC/IF)	-	2 Publications
ELISA (ELISA)	2-10 µg/mL	4 Publications
Immunoprecipitation (IP)	-	1 Publication
Miscellaneous PubMed (Misc)	-	6 Publications

Product Specific Information

MN1050 targets PHF-tau (Thr181) in IF, IHC, and WB applications and shows reactivity with Human samples.

The MN1050 immunogen is partially purified human PHF-Tau.

MN1050 detects PHF-tau (Thr181) which has a predicted molecular weight of approximately 79 kDa.

Western Blot (73)

Molecular psychiatry

Loss of function of the mitochondrial peptidase PITRM1 induces proteotoxic stress and Alzheimer's disease-like pathology in human cerebral organoids.

"MN1050 was used in Western Blotting to support a mechanistic link between mitochondrial function and common neurodegenerative proteinopathies."

Authors: Pérez MJ,Ivanyuk D,Panagiotakopoulou V,Di Napoli G,Kalb S,Brunetti D,Al-Shaana R,Kaesler SA,Fraschka SA,Jucker M,Zeviani M,Viscomi C,Deleidi M

Species
Human

Dilution
1:1000

Year
2021

Nature communications

UBE4B, a microRNA-9 target gene, promotes autophagy-mediated Tau degradation.

"MN1050 was used in Western Blot to demonstrate that UBE4B, a miR-9 target gene, promotes autophagy-mediated Tau degradation together with STUB1, and is thus an innovative therapeutic approach for AD."

Authors: Subramanian M,Hyeon SJ,Das T,Suh YS,Kim YK,Lee JS,Song EJ,Ryu H,Yu K

Species
Fruit fly

Dilution
1:1000

Year
2021

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

Immunohistochemistry (20)

Scientific reports

Five lipoxygenase hypomethylation mediates the homocysteine effect on Alzheimer's phenotype.

"MN1050 was used in immunohistochemistry and western blot to show that ALOX5 upregulation results in homocysteine-dependent worsening of the Alzheimer's disease phenotype"

Authors: Li JG,Barrero C,Merali S,Praticò D

Species
Mouse

Dilution
Not Cited

Year
2017

Cell death & disease

Therapeutic advantage of pro-electrophilic drugs to activate the Nrf2 /ARE pathway in Alzheimer's disease models.

"MN1050 was used in immunohistochemistry to examine the effects of carnosic acid in models of Alzheimer's disease"

Authors: Lipton SA,Rezaie T,Nutter A,Lopez KM,Parker J,Kosaka K,Satoh T,McKercher SR,Masliah E,Nakanishi N

Species
Mouse

Dilution
1:500

Year
2016

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

More applications with references on thermofisher.com

IHC (P) (2)

ICC/IF (2)

ELISA (4)

IP (1)

Misc (6)

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