Performance guarenteed'

Synaptophysin Monoclonal Antibody (SP11)

Product Details

Size	500 μL
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Monoclonal
Туре	Antibody
Clone	SP11
Conjugate	Unconjugated
Immunogen	A synthetic peptide of human synaptophysin
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	tissue culture supernatant/TBS, pH 7.5, with 1% BSA
Contains	0.1% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_10983675

Applications	Tested Dilution	Publications
Western Blot (WB)	1:200	6 Publications
Immunohistochemistry (IHC)	-	34 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:200	2 Publications
Immunocytochemistry (ICC/IF)	1:250	6 Publications
Miscellaneous PubMed (Misc)	-	4 Publications

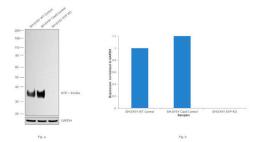
Product Specific Information

MA5-14532 targets Synaptophysin in IHC (P) and WB applications and shows reactivity with Human samples.

The MA5-14532 immunogen is a synthetic peptide of human synaptophysin.

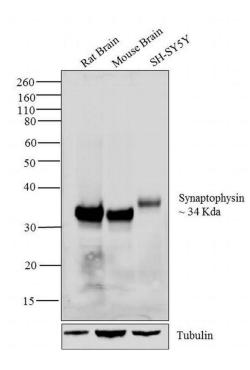
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Product Images For Synaptophysin Monoclonal Antibody (SP11)



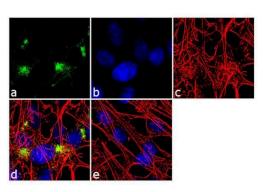
Synaptophysin Antibody (MA5-14532)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in SYP KO cell line compared to control cell line using Anti-Synaptophysin Monoclonal Antibody (SP11)(Product # MA5-14532). {KO}



Synaptophysin Antibody (MA5-14532) in WB

Western blot analysis was performed on tissue, whole cell extracts (30 µg lysate) of Rat Brain (Lane 1), Mouse Brain (lane 2), and SH-SY5Y (lane 3).The blots were probed with Anti-Synaptophysin Rabbit Monoclonal Antibody (Product # MA5-14532, 1:1000) and detected by chemiluminescence Goat Anti-Rabbit IgG Secondary Antibody, HRP conjugate (Product # G-21234, 1:5000 dilution). A 34 kDa band corresponding to Synaptophysin was observed across cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10 % Bis-Tris gel (Product # NP0301BOX), XCell SureLock[™] Electrophoresis System (Product # El0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce[™] ECL Western Blotting Substrate (Product # 32106).



Synaptophysin Antibody (MA5-14532) in ICC/IF

Immunofluorescence analysis of Synaptophysin was done on 70% confluent log phase SH-SY5Y cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton[™] X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with Synaptophysin (SP11) Rabbit Monoclonal Antibody (Product # MA5-14532) at 1: 250 dilution in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal[™] Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # R415, 1: 300). Panel d is a merged image showing cytoplasmic localization. Panel e is a no primary antibody control. The images were captured at 60X magnification.

View more figures on thermofisher.cn

52 References

Western Blot (6)

Journal of extracellular vesicles
Dynamic release of neuronal extracellular vesicles containing miR-21a- 5p is induced by hypoxia.
"Published figure using Synaptophysin monoclonal antibody (Product # MA5-14532) in Western Blot"
Authors: Korvenlaita N,Gómez-Budia M,Scoyni F,Pistono C,Giudice L,Eamen S,Loppi S,de Sande AH,Huremagic B, Bouvy-Liivrand M,Heinäniemi M,Kaikkonen MU,Cheng L,Hill AF,Kanninen KM,Jenster GW,van Roven ME,Ramiro L,

BioFactors (Oxford, England)

Fructose diet ameliorate effects of macrophage migration inhibitory factor deficiency on prefrontal cortex inflammation, neural plasticity, and behavior in male mice.

"MA5-14532 was used in Western Blotting to suggest that the ameliorating effects of fructose on neuroinflammation and behavior depend on the presence of macrophage migration inhibitory factor (MIF)."

Authors: Vratari M, Šenk V, Bursa B, Gligorovska L, Ignjatovi D, Kovaevi S, Velikovi N, Djordjevic A

Montaner J,Batkova T,Mikulik R,Giugno R,Jolkkonen J,Korhonen P,Malm T

Year 2023

2023 Species

Year

Mouse

Dilution 1:1000

View more WB references on thermofisher.cn

mmunohistochemist	ry	(34)
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Case reports in pathology A Previously Undescribed Presentation of Mixed Adenoneuroendocrine	Year 2022
Carcinoma.	Species
MA514532 was used in immunohistochemistry to discuss a case of mixed adenoneuroendocrine carcinoma of tomach with tubular adenoma and well-differentiated neuroendocrine tumor in the primary tumor in the stomach"	Human
Authors: De Luca-Johnson J,Zenali M	
Cells	Year
	Year 2021
Cells Microglia-like Cells Promote Neuronal Functions in Cerebral Organoids. "MA5-14532 was used in Immunohistochemistry to conclude that microglia-like cells within the organoids promote neuronal and network maturation and recapitulate some aspects of microglia-neuron co-development in vivo, indicating that cerebral organoids could be a useful biorealistic human in vitro platform for studying microglia-neuron interactions."	

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More applications with references on thermofisher.cn

IHC (P) (2) ICC/IF (6) Misc (4)

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