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 |

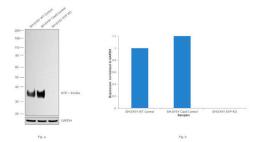
Product Specific Information

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.

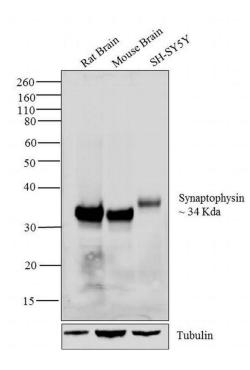
1

Product Images For Synaptophysin Monoclonal Antibody (SP11)



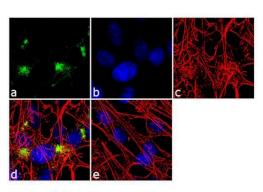
Synaptophysin Antibody (MA5-14532)

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) |
|-------------------|----|------|
|-------------------|----|------|

| 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." | |

View more IHC references on thermofisher.cn

More applications with references on thermofisher.cn

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

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