Synaptophysin Rabbit mAb

Catalog No.: A27659 Recombinant



Basic Information

Observed MW

38 kDa

Calculated MW

34 kDa

Category

Primary antibody

Applications

WB,IP,IF-F,IF-P,IHC-P,ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC74719

Background

Synaptophysin (SYP, also known as major synaptic vesicle protein p38) is a 38-kDa integral membrane glycoprotein that regulates synaptic vesicle endocytosis. It is the most abundant synaptic vesicle protein by mass. Synaptophysin is present in neuroendocrine cells and neurons that participate in synaptic transmission. Synaptophysin is a useful marker for the identification of neuroendocrine cells and neoplasms. Synaptic proteins including synaptophysin are reduced in brain tissue from patients with Alzheimer's disease.(PMID: 3010302; 21658579)

Recommended Dilutions

WB 1:5000 - 1:40000

IP 0.5μg-4μg antibody for 500μg-700μg extracts of

whole cells

IF-F 1:200 - 1:800

IF-P 1:200 - 1:800

IHC-P 1:500 - 1:2000

ELISA Recommended starting

concentration is 1 µg/mL.

Please optimize the
concentration based on
your specific assay
requirements.

Immunogen Information

Gene ID Swiss Prot6855
P08247

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

SYP; SYN; MRX96

Product Information

SourceIsotypePurificationRabbitIgGAffinity purification

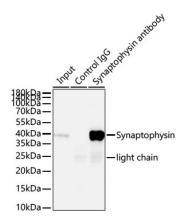
Storage

Store at -20°C. Avoid freeze / thaw cycles.

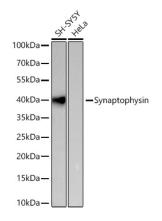
Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

Contact

<u>a</u>	400-999-6126
\bowtie	cn.market@abclonal.com.cr
•	www.abclonal.com.cr



Immunoprecipitation of Synaptophysin from 600 μ g extracts of SH-SY5Y was performed using 1 μ g of Synaptophysin Rabbit mAb (A27659). Rabbit IgG isotype control (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1X reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Synaptophysin Rabbit mAb (A27659) at a dilution of 1:5000.



Western blot analysis of various lysates using Synaptophysin Rabbit mAb (A27659) at 1:5000 dilution incubated overnight at $4^{\circ}\text{C}.$

Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

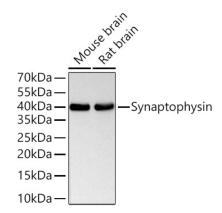
Lysates/proteins: 25 μg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Negative control (NC): HeLa

Exposure time: 45s.



Western blot analysis of various lysates using Synaptophysin Rabbit mAb (A27659) at 1:20000 dilution incubated overnight at 4° C.

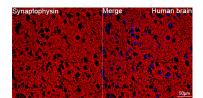
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

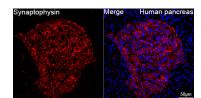
Lysates/proteins: 25 µg per lane.

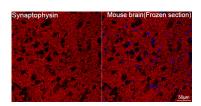
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 1 s.



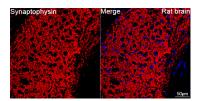


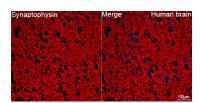


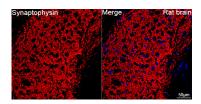
Confocal imaging of paraffin-embedded Human brain tissue using Synaptophysin Rabbit mAb (A27659, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

Confocal imaging of paraffin-embedded Human pancreas tissue using Synaptophysin Rabbit mAb (A27659, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

Confocal imaging of frozen sections Mouse brain tissue using Synaptophysin Rabbit mAb (A27659, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



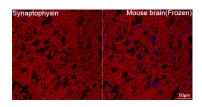


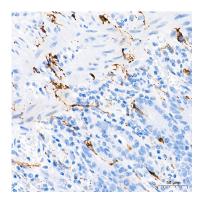


Confocal imaging of paraffin-embedded Rat brain tissue using Synaptophysin Rabbit mAb (A27659, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

Confocal imaging of paraffin-embedded Human brain tissue using Synaptophysin Rabbit mAb (A27659, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

Confocal imaging of paraffin-embedded Rat brain tissue using Synaptophysin Rabbit mAb (A27659, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



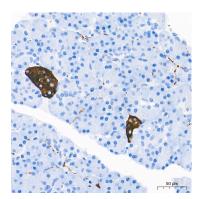


Confocal imaging of frozen sections Mouse brain tissue using Synaptophysin Rabbit mAb (A27659, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue).

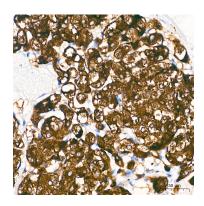
Immunohistochemistry analysis of paraffinembedded Human brain tissue using Synaptophysin Rabbit mAb (A27659) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

Immunohistochemistry analysis of paraffinembedded Human colon tissue using Synaptophysin Rabbit mAb (A27659) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



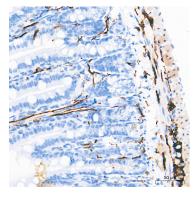
Immunohistochemistry analysis of paraffinembedded Human pancreas tissue using Synaptophysin Rabbit mAb (A27659) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



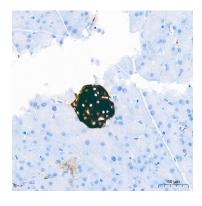
Immunohistochemistry analysis of paraffinembedded Human pheochromocytoma tissue using Synaptophysin Rabbit mAb (A27659) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



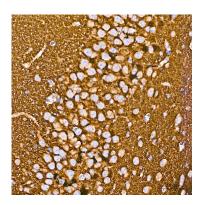
Immunohistochemistry analysis of paraffinembedded Mouse brain tissue using Synaptophysin Rabbit mAb (A27659) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



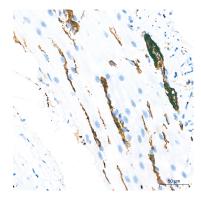
Immunohistochemistry analysis of paraffinembedded Mouse intestin tissue using Synaptophysin Rabbit mAb (A27659) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Mouse pancreas tissue using Synaptophysin Rabbit mAb (A27659) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Rat brain tissue using Synaptophysin Rabbit mAb (A27659) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Rat colon tissue using Synaptophysin Rabbit mAb (A27659) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.