

Chapsyn-110 Antibody
Chapsyn-110 Antibody, Clone S18-30
Catalog # ASM10201**Specification****Chapsyn-110 Antibody - Product Information**

Application	WB, IHC, IP, ICC, AM
Primary Accession	Q63622
Other Accession	NP_071618.1
Host	Mouse
Isotype	IgG1
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal

Description

Mouse Anti-Rat Chapsyn-110 Monoclonal IgG1

Target/Specificity

Detects ~110kDa. No cross-reactivity against other MAGUK family members, PSD95, SAP97, SAP102, expressed in transfected cells. Weak human detection.

Other Names

PSD93 Antibody, Chapsyn-110 Antibody, MGC131811 Antibody, PSD-93 Antibody, Discs Large Homolog 2 Antibody, DLG2 Antibody, Postsynaptic density protein PSD-93 Antibody, DLGH2 Antibody, Channel-associated protein of synapse-110 Antibody

Immunogen

Fusion protein amino acids 1-852 of rat Chapsyn-110

Purification

Protein G Purified

Storage **-20°C**

Storage Buffer

PBS pH7.4, 50% glycerol, 0.09% sodium azide

Shipping Temperature **Blue Ice or 4°C**

Certificate of Analysis

1 µg/ml of SMC-325 was sufficient for detection of Chapsyn -110 in 10 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Cellular Localization

Membrane | Cell Junction | Synapse | Postsynaptic Cell Membrane | Cell Projection | Axon

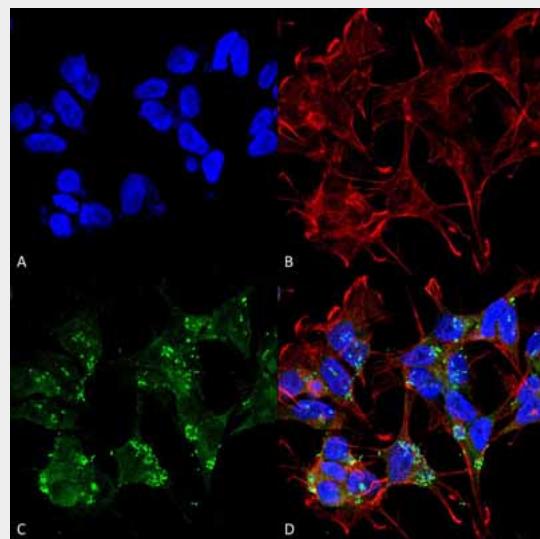
Chapsyn-110 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

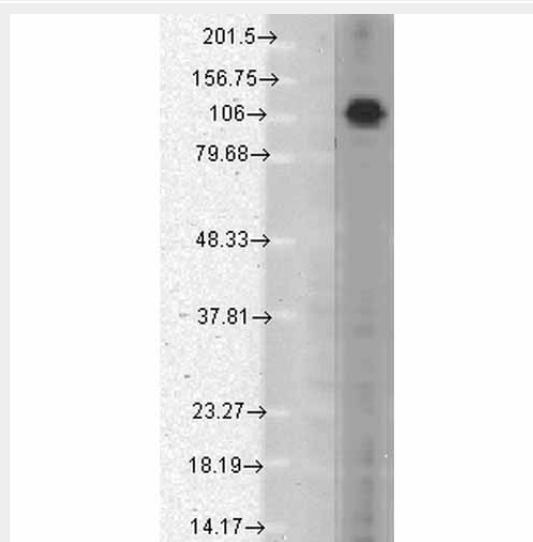
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Chapsyn-110 Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Chapsyn-110 Monoclonal Antibody, Clone S18-30 (ASM10201). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Chapsyn-110 Monoclonal Antibody (ASM10201) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:200 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60 min at RT, 5 min at RT. Localization: Membrane, Cell Junction, Synapse, Postsynaptic Cell Membrane. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) Chapsyn-110 Antibody (D) Composite.



Western Blot analysis of Rat brain membrane lysate showing detection of Chapsyn-110 protein using Mouse Anti-Chapsyn-110 Monoclonal Antibody, Clone S18-30 (ASM10201). Load: 15 µg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Chapsyn-110 Monoclonal

Antibody (ASM10201) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

Chapsyn-110 Antibody - Background

Chapsyn-110, is a part of the membrane-associated putative guanylate kinase (MAGUK) family. It binds directly to the NMDA receptor, and Shaker K⁺ channel subunits, and is 70-80% identical to PSD-95/SAP90 and SAP97 (1). It associated tightly with the postsynaptic density 1 brain, and mediates the clustering of both NMDA receptors and K⁺ channels in heterologous cells. The encoded protein forms a heterodimer with PSD-95 that may interact at postsynaptic sites to form a multimeric scaffold for the clustering of receptors, ion channels, and associated signaling proteins (1, 2).

Chapsyn-110 Antibody - References

1. Kim E., et al. (1996) *Neuron*. 17:103-113.
2. Godreau D., Neyroud N., Vranckx R. and Hatem S. (2004) *Med Sci (Paris)*. 20(1): 84-88.