

Synaptophysin 2 Antibody
Affinity purified rabbit polyclonal antibody
Catalog # AN1108**Specification**

Synaptophysin 2 Antibody - Product Information

Application	WB
Primary Accession	P22831
Reactivity	Rat
Predicted	Mouse
Host	Rabbit
Clonality	polyclonal
Calculated MW	38 KDa

Synaptophysin 2 Antibody - Additional Information

Gene ID	66030
Gene Name	SYNPR
Other Names	
Synaptoporin, Synpr	

Target/Specificity

Synthetic peptide corresponding to amino acid residues from the C-terminal region conjugated to KLH.

Dilution

WB~~ 1:1000

Format

Prepared from rabbit serum by affinity purification via chromatography on an affinity column made with the C-terminal peptide used as antigen.

Antibody Specificity

Specific for ~38k Synaptophysin 2 protein.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Synaptophysin 2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

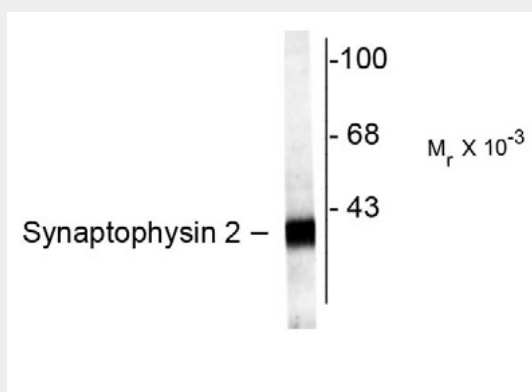
Blue Ice

Synaptophysin 2 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](#)

Synaptophysin 2 Antibody - Images



Western blot of rat hippocampal lysate showing specific labeling of the ~38k Synaptophysin2 protein.

Synaptophysin 2 Antibody - Background

Synaptophysin 2, also known as Synaptoporin, is a component of the synaptic vesicle membrane and thought to play an important role in synaptic vesicle trafficking (Dai et al., 2003). It is highly homologous to Synaptophysin 1, yet differs in expression. Whereas Synaptophysin 1 is ubiquitously expressed, Synaptophysin 2 is concentrated in the mossy fiber synapses of the hippocampus (Grabs et al., 1994; Singec et al., 2002).

Synaptophysin 2 Antibody - References

Dai J, Ji C, Gu S, Wu Q, Wang L, Xu J, Zeng L, Ye X, Yin G, Xie Y, Mao Y (2003) Cloning and sequence analysis of the human cDNA encoding the synaptoporin, a highly conserved synaptic vesicle protein. *Molecular Biology Reports* 30:185-191.

Singec I, Knoth R, Ditter M, Hagemeyer CE, Rosenbrock H, Frotscher M, Volk B (2002) Synaptic vesicle protein synaptoporin is differently expressed by subpopulations of mouse hippocampal neurons. *J Comp Neurol* 452(2):139-153.

Grabs D, Bergmann M, Schuster T, Fox PA, Brich M, Gratz M (1994) Differential expression of synaptophysin and synaptoporin during pre- and postnatal development of the rat hippocampal network. *Eur J Neurosci*. 6(11): 1765-71..