

Stargazin Antibody
Affinity purified rabbit polyclonal antibody
Catalog # AN1124**Specification**

Stargazin Antibody - Product Information

Application	WB
Primary Accession	O88602
Reactivity	Rat
Predicted	Mouse
Host	Rabbit
Clonality	polyclonal
Calculated MW	36 KDa

Stargazin Antibody - Additional Information

Gene ID	12300
Gene Name	CACNG2

Other Names

Voltage-dependent calcium channel gamma-2 subunit, Neuronal voltage-gated calcium channel gamma-2 subunit, Stargazin, Transmembrane AMPAR regulatory protein gamma-2, TARP gamma-2, Cacng2, Stg

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 to which the C-terminal peptide used as immunogen was coupled.

Antibody Specificity

Specific for the ~36k stargazin protein. Immunolabeling of the stargazinband is blocked by preadsorption with the peptide used as antigen.

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

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

Shipping

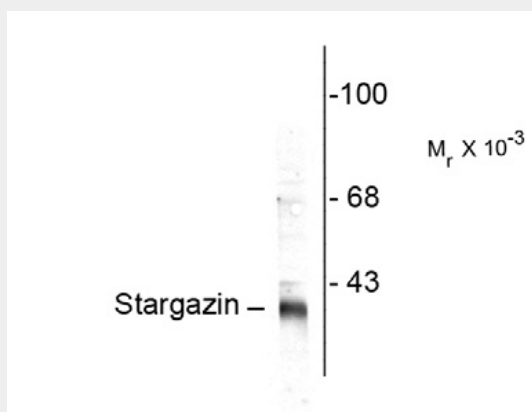
Blue Ice

Stargazin 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](#)

Stargazin Antibody - Images



Western blot of rat synaptic membrane (SPM) showing specific immunolabeling of the ~ 36k stargazin protein.

Stargazin Antibody - Background

Stargazin is a member of the transmembrane AMPAR regulatory proteins (TARP) family and is involved in glutamate receptor trafficking. It has been recently demonstrated (Tomita et al., 2005; Priel et al., 2005) that the interaction between stargazin and AMPA receptors is critical for the correct localization of the receptors at the synapse. Phosphorylation of the stargazin protein at Thr 321 by Protein Kinase A regulates its interaction with PSD-95 and synaptic targeting of AMPA receptors (Choi et al., 2002).

Stargazin Antibody - References

- Tomita S, Adesnik H, Sekiguchi M, Zhang W, Wada K, Howe JR, Nicoll RA, Brecht DS, (2005) Stargazin modulates AMPA receptor gating and trafficking by distinct domains. *Nature* 435: 1052-1058.
- Priel A, Kollek A, Ayalon G, Gillor M, Osten P, Stern-Bach Y. (2005) Stargazin reduces desensitization and slows deactivation of the AMPA-type glutamate receptors. *J. Neurosci.* 25, 2682-2686.
- Choi, J, Ko J, Park E, Lee JR, Yoon J, Lim S, Kim E, Phosphorylation of stargazin by protein kinase A regulates its interaction with PSD-95. *J Biol Chem.* 2002 Apr 5;277(14):12359-63.