ARG52425
anti-Stargazin antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Stargazin
Tested Reactivity	Rat
Predict Reactivity	Ms
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Stargazin
Species	Mouse
Immunogen	Synthetic peptide corresponding to amino acid residues from the C-terminal region conjugated to KLH
Conjugation	Un-conjugated
Alternate Names	Voltage-dependent calcium channel gamma-2 subunit; TARP gamma-2; Neuronal voltage-gated calcium channel gamma-2 subunit; MRD10; Transmembrane AMPAR regulatory protein gamma-2

Application Instructions

Application table

Application	Dilution
WB	1:1000

Application Note: Specific for the ~36k stargazin protein. Immunolabeling of the stargazin band is blocked by preadsorption with the peptide used as antigen.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

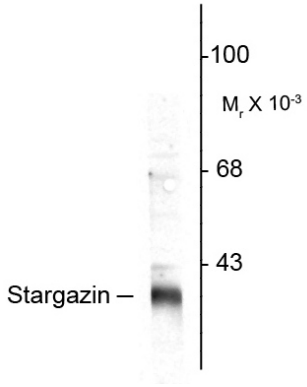
Properties

Form	Liquid
Purification	Affinity Purified
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol
Stabilizer	0.1 mg/ml BSA, 50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	CACNG2
Gene Full Name	calcium channel, voltage-dependent, gamma subunit 2
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).
Research Area	Signaling Transduction antibody
Calculated Mw	36 kDa
PTM	Phosphorylation of Thr-321 impairs interaction with DLG1 and DLG4.

Images



ARG52425 anti-Stargazin antibody WB image

Western Blot: rat synaptic membrane (SPM) showing specific immunolabeling of the ~ 36k stargazin protein stained with Stargazin antibody (ARG52425).