

## Rabbit Stargazin Polyclonal Antibody | anti-CACNG2 antibody

Anti-Stargazin

|                              |                       |                                                  |                                     |
|------------------------------|-----------------------|--------------------------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA14233</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Tested: Rat Expected: Mouse</b> | APPLICATIONS<br><b>Western Blot</b> |
|------------------------------|-----------------------|--------------------------------------------------|-------------------------------------|

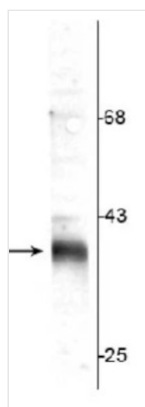
### PRODUCT SYNONYMS

Stargazin; Polyclonal Antibody; Anti-Stargazin; anti-CACNG2 antibody

### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                    |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                             |
| Reactivity                                       | Tested: Rat<br>Expected: Mouse                                                                                                                                     |
| Clonality                                        | Polyclonal                                                                                                                                                         |
| Specificity                                      | Specific for the ~36kDa stargazin protein.                                                                                                                         |
| Purity/Purification                              | Prepared from pooled rabbit serum by affinity purification via chromatography on an affinity column to which the C-terminal peptide used as immunogen was coupled. |
| Form/Format                                      | 100 ul in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 ug per ml BSA and 50% glycerol. Adequate amount of material to conduct 10-mini Western Blots.                     |
| Applicable Applications for anti-CACNG2 antibody | WB (Western Blot)                                                                                                                                                  |
| Application Notes                                | WB: 1:1000                                                                                                                                                         |
| Immunogen                                        | Peptide corresponding to amino acid residues from the C-terminal region of rat stargazin, conjugated to keyhole limpet hemocyanin (KLH).                           |
| Quality Control Tests                            | Western blots performed on each lot.                                                                                                                               |
| Preparation and Storage                          | Store at -20°C, stable for one year. Avoid freeze/thaw cycles.                                                                                                     |

### IMAGES



#### WB (Western Blot)

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

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CACNG2 antibody | <p>Description: Affinity purified rabbit polyclonal antibody</p> <p>Biological Significance: 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).</p>                       |
| References                                           | <ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li><li>• 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.</li></ul> |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 6680826                                                                                                                                                                               |
| NCBI GeneID                      | 12300                                                                                                                                                                                 |
| NCBI Accession #                 | NP_031609.1                                                                                                                                                                           |
| NCBI GenBank Nucleotide #        | NM_007583.2                                                                                                                                                                           |
| UniProt Accession #              | O88602                                                                                                                                                                                |
| Molecular Weight                 | 36 kDa                                                                                                                                                                                |
| NCBI Official Full Name          | voltage-dependent calcium channel gamma-2 subunit                                                                                                                                     |
| NCBI Official Synonym Full Names | calcium channel, voltage-dependent, gamma subunit 2                                                                                                                                   |
| NCBI Official Symbol             | Cacng2                                                                                                                                                                                |
| NCBI Official Synonym Symbols    | stg; wag; waggler; AW060990; stargazer; stargazin; B230105C07Rik; B930041E13Rik                                                                                                       |
| NCBI Protein Information         | voltage-dependent calcium channel gamma-2 subunit; TARP gamma 2; TARP gamma-2; transmembrane AMPAR regulatory protein gamma-2; neuronal voltage-gated calcium channel gamma-2 subunit |
| UniProt Protein Name             | Voltage-dependent calcium channel gamma-2 subunit                                                                                                                                     |
| UniProt Gene Name                | Cacng2                                                                                                                                                                                |
| UniProt Synonym Gene Names       | Stg; TARP gamma-2                                                                                                                                                                     |
| UniProt Entry Name               | CCG2_MOUSE                                                                                                                                                                            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.