

Product Information

ANTI-CYCLIC NUCLEOTIDE-GATED CATION CHANNEL 2

Developed in Rabbit, Affinity Isolated Antibody

Product Number **N 7529**

Product Description

Anti-Cyclic Nucleotide-Gated Cation Channel 2 (CNG2) is developed in rabbit using a highly purified peptide with the sequence KQNHEDDYLSGDGINTPEP, corresponding to amino acid residues 643-660 of rat CNG2. The anti-CNG2 antibody was affinity isolated on immobilized peptide.

Anti-Cyclic Nucleotide-Gated Cation Channel 2 recognizes an intracellular, C-terminal epitope of the CNG2 protein from rat brain membranes by immunoblotting. Although cross-species reactivity has not been tested, the sequence used for immunization is 100%, 83% and 77% identical in mouse, rabbit and bovine, respectively.

Reagents

Anti-Cyclic Nucleotide-Gated Cation Channel 2 is supplied lyophilized at 0.3 mg/ml from phosphate buffered saline, pH 7.4, containing 1% bovine serum albumin, 5% sucrose, and 0.025% sodium azide.

Precautions and Disclaimer

Due to the sodium azide content, a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazardous and safe handling practices.

Preparation Instructions

Reconstitute the lyophilized vial with 0.05 ml or 0.2 ml deionized water, depending on the package size purchased. Antibody dilutions should be made in buffer containing 1-3% bovine serum albumin.

Storage/Stability

Prior to reconstitution, store at -20°C . After reconstitution, the stock antibody solution may be stored at 4°C for up to 2 weeks. For extended storage, freeze in working aliquots. Repeated freezing and thawing is not recommended. Storage in "frost-free" freezers is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

The recommended working dilution is 1 to 200 ($1.5\ \mu\text{g/ml}$) for immunoblotting using an HRP-goat anti-rabbit secondary antibody and chemiluminescent detection.

Note: In order to obtain best results and assay sensitivities of different techniques and preparations, we recommend determining optimal working dilutions by titration test.

References

1. Sautter, A. et al., *Proc. Natl. Acad. Sci., USA*, **95**, 4696-4701 (1998).
2. Gerstner, A. et al., *J. Neurosci.*, **20**, 1324-1332 (2000).
3. Johnson, J.P. Jr. and Zagotta, W.N., *Nature*, **412**, 917-921 (2001).
4. Young, E.C. et al., *J. Gen. Physiol.*, **118**, 523-546 (2001).

mje 12/01

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.