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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Calcium Channel. Rabbit Polyclonal Antibody

BACKGROUND

Voltage-sensitive calcium channels (VSCCs) mediate the entry of calcium ions into excitable cells and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, gene expression, cell motility, cell division and cell death. The isoform alpha-1b gives rise to N-type calcium currents. N-type calcium channels belong to the 'high-voltage activated' (hva) group and are blocked by omega-conotoxin-GVIA (omega-ctx-GVIA) and by omega-agatoxin-IIIA (omega-aga-IIIA). They are however insensitive to dihydropyridines (dhp), and omega-agatoxin-IVA (omega-aga-IVA). Calcium channels containing alpha-1b subunit may play a role in directed migration of immature neurons.

IMMUNOGEN

Synthetic peptide derived from the rat alpha1B calcium channel conjugated to KLH

POSITIVE CONTROL/TISSUE EXPRESSION

Isoform Alpha-1b-1 and isoform Alpha-1b-2 are expressed in the central nervous system, but not in skeletal muscle or aorta.

COMMENTS

This antibody can be used for Western blotting (5-10 µg/ml). Optimal concentration should be evaluated by serial dilutions.

ORDERING INFORMATION

CATALOG NUMBER

X1507P

SIZE

100 µg

FORM

Unconjugated

HOST/CLONE

Rabbit

FORMULATION

Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION

See vial for concentration

ISOTYPE

IgG

APPLICATIONS

Western Blot

SPECIES REACTIVITY

Human

ACCESSION NUMBER

Q00975, Human

PURIFICATION

Ammonium Sulfate Precipitation

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Dubel, S.J. et.al. "Molecular cloning of the alpha-1 subunit of an omega-conotoxin-sensitive calcium channel" Proc. Natl. Acad. Sci. U.S.A. 89 (11), 5058-5062 (1992)
2. Snutch, T.P. et.al. "Rat brain expresses a heterogeneous family of calcium channels" Proc. Natl. Acad. Sci. U.S.A. 87 (9), 3391-3395 (1990)
3. Hell, J.W. et.al. "Differential phosphorylation of two size forms of the N-type calcium channel alpha 1 subunit which have different COOH termini" J. Biol. Chem. 269 (10), 7390-7396 (1994)
4. Sunan, A.A. et.al. "The C terminus of the Ca channel alpha1B subunit mediates selective inhibition by G-protein-coupled receptors." J Neurosci. 21(19), 7587-97. (2001)