



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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a1G Calcium Channel. Rabbit Antigen Immunoaffinity Purified Polyclonal
Voltage-Dependent T-Type Calcium Channel, alpha1G subunit; Cnca1G

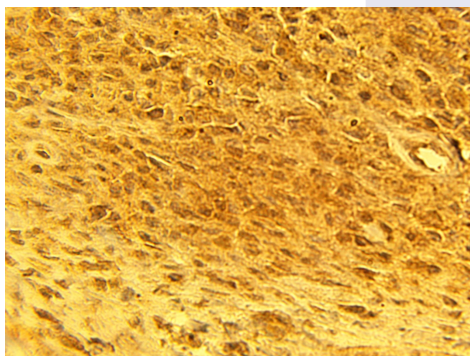
BACKGROUND

Voltage-sensitive calcium channels (VSCC) 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-1g gives rise to T-type calcium currents. T-type calcium channels belong to the 'low-voltage activated (LVA)' group and are strongly blocked by nickel and mibefradil. A particularity of this type of channels is an opening at quite negative potentials and a voltage-dependent inactivation. T-type channels serve pacemaking functions in both central neurons and cardiac nodal cells and support calcium signaling in secretory cells and vascular smooth muscle. They may also be involved in the modulation of firing patterns of neurons which is important for information processing as well as in cell growth processes. alpha(1G) is most likely responsible for burst firing in thalamic relay cells. These neurons burst during various thalamocortical oscillations including absence seizures the modulation of the intrinsic firing pattern mediated by alpha(1G) T-type Ca(2+) channels plays a critical role in the genesis of absence seizures in the thalamocortical pathway.

IMMUNOGEN

Synthetic peptide derived from the rat alpha1G calcium channel conjugated to KLH

Immunohistochemical staining of human melanoma tumor tissue using alpha1G calcium channel antibody (Cat. No. X2715P) at 15 µg/ml.



ORDERING INFORMATION

CATALOG NUMBER
X2715P

SIZE
10 Miniblots

FORM
Affinity Purified

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
Human O43497

POSITIVE CONTROL/TISSUE EXPRESSION

Rat brain lysate, human melanoma tissue

COMMENTS

Antibody can be used for Western blotting (1:400 dilution). Optimal concentration should be evaluated by serial dilutions.

PURIFICATION

Antigen Immunoaffinity Purification

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. Perez-Reyes, E et.al. 'Molecular characterization of a neuronal low-voltage-activated T-type calcium channel' Nature 391 (6670), 896-900 (1998)
2. Sohal, VS. et al. 'It takes T to tango.' Neuron 31(1):3-4 (2001)
3. Kim, D. et.al. 'Lack of the burst firing of thalamocortical relay neurons and resistance to absence seizures in mice lacking alpha(1G) T-type Ca(2+) channels.' Neuron 31(1):35-45 (2001)

PRODUCT SPECIFIC REFERENCES