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Datasheet for ABIN7042988

anti-CACNG1 antibody (1st Extracellular Loop)

2 Images

Overview

Quantity:	25 µL
Target:	CACNG1
Binding Specificity:	1st Extracellular Loop, AA 30-44
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CACNG1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)DHWAVLSPHLEHHNE, corresponding to amino acid residues 30-44 of rat CACNG1
Isotype:	IgG
Characteristics:	Anti-CACNG1 (extracellular) Antibody is directed against an epitope of rat CaVγ1. Anti-CACNG1 (extracellular) Antibody (ABIN7042988, ABIN7044053 and ABIN7044054) can be used in western blot and immunohistochemistry applications. The antibody recognizes an extracellular epitope and is thus ideal for detecting the protein in living cells. It has been designed to recognize CaVγ1 from rat, mouse and human samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

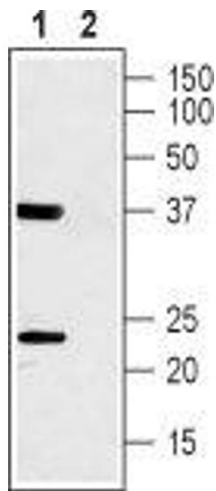
Target:	CACNG1
Alternative Name:	CACNG1 (CACNG1 Products)
Background:	Alternative names: CACNG1, CaVgamma1, CACNLG, Voltage-dependent calcium channel gamma-1 subunit, Dihydropyridine-sensitive L-type, skeletal muscle Ca ²⁺ channel subunit gamma
Gene ID:	29658
NCBI Accession:	NM_000727
UniProt:	P97707

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

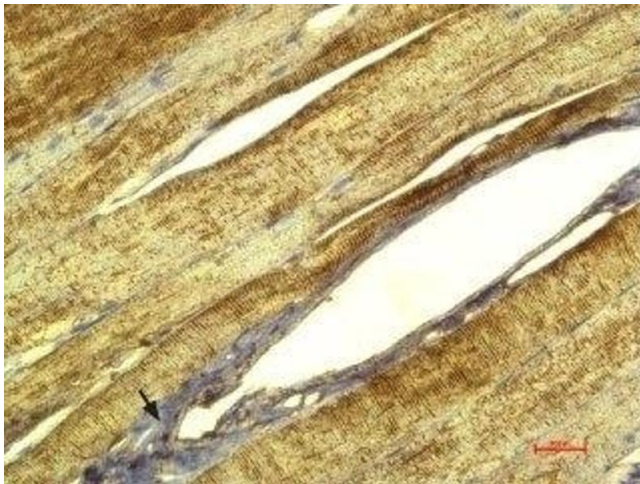
Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.85 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT, 4 °C, -20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).



Western Blotting

Image 1. Western blot analysis of rat skeletal muscle lysate:
 - 1. Anti-CACNG1 (extracellular) Antibody (ABIN7042988, ABIN7044053 and ABIN7044054), (1:400). 2. Anti-CACNG1 (extracellular) Antibody, preincubated with CACNG1 (extracellular) Blocking Peptide (#BLP-CC111).



Immunohistochemistry

Image 2. Expression of CaVγ1 (CACNG1) in rat skeletal muscle - Immunohistochemical staining of paraffin-embedded rat skeletal muscle sections using Anti-CACNG1 (extracellular) Antibody (ABIN7042988, ABIN7044053 and ABIN7044054), (1:100), followed by DAB. CaVγ1 staining is highly specific for striated muscle cells. Note that smooth muscle cells of arteries are not stained (arrow). Hematoxylin is used as the counterstain.