

Datasheet for ABIN7043004

anti-CACNA1S antibody (2nd Extracellular Loop, Domain 4)[Go to Product page](#)**2** Images

Overview

Quantity:	25 µL
Target:	CACNA1S
Binding Specificity:	2nd Extracellular Loop, AA 506-518, Domain 4
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CACNA1S antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: CGNVDPDESARIS, corresponding to amino acid residues 506-518 of rat CaV1.1
Isotype:	IgG
Characteristics:	Anti-Cav1.1 (CACNA1S) (extracellular) Antibody is directed against an extracellular epitope of the rat CaV1.1 channel. Anti-Cav1.1 (CACNA1S) (extracellular) Antibody (ABIN7043004, ABIN7044107 and ABIN7044108)) can be used in western blot and immunohistochemistry applications. The antibody recognizes an extracellular epitope and is thus ideal for detecting the channel in living cells. It has been designed to recognize CaV1.1 from rat, mouse and human samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

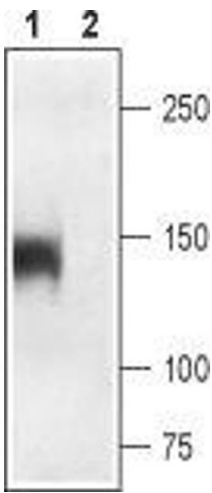
Target:	CACNA1S
Alternative Name:	CaV1.1 (CACNA1S) (CACNA1S Products)
Background:	Alternative names: CaV1.1 (CACNA1S), Voltage-dependent L-type calcium channel subunit alpha1S, CACH1, CACN1, CACH1B, CACNL1A3
Gene ID:	682930
NCBI Accession:	NM_000069
UniProt:	Q02485
Pathways:	Skeletal Muscle Fiber Development

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:	<p>Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.</p> <p>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).</p>



Western Blotting

Image 1. Western blot analysis of rat skeletal muscle: -
1. Anti-CaV1.1 (CACNA1S) (extracellular) Antibody (ABIN7043004, ABIN7044107 and ABIN7044108), (1:200). 2. Anti-CaV1.1 (CACNA1S) (extracellular) Antibody, preincubated with Cav1.1/CACNA1S (extracellular) Blocking Peptide (#BLP-CC314).



Immunohistochemistry

Image 2. Expression of CaV1.1 in rat skeletal muscle -
Immunohistochemical staining of paraffin-embedded rat skeletal muscle sections using Anti-CaV1.1 (CACNA1S) (extracellular) Antibody (ABIN7043004, ABIN7044107 and ABIN7044108), (1:100), followed by DAB. CACNA1S 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.