

For Research Use Only

# CACNA1S Polyclonal antibody

Catalog Number: 22279-1-AP

2 Publications



## Basic Information

Catalog Number:

22279-1-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM\_000069

GeneID (NCBI):

779

UNIPROT ID:

Q13698

Full Name:

calcium channel, voltage-dependent, L type, alpha 1S subunit

Calculated MW:

212 kDa

Observed MW:

200-220 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:20-1:200

## Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human

Cited Species:

human

Positive Controls:

WB : human brain tissue,

IHC : human skeletal muscle tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

CACNA1S, also named as CACH1, CACN1 and CACNL1A3, belongs to the calcium channel alpha-1 subunit (TC 1.A.1.11) family and CACNA1S subfamily. 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. CACNA1S gives rise to L-type calcium currents. Long-lasting (L-type) calcium channels belong to the 'high-voltage activated' (HVA) group. The antibody is specific to CACNA1S.

## Notable Publications

Author	Pubmed ID	Journal	Application
Ru Zheng	27742864	Reproduction	IHC
Jorge L Jimenez-Macias	39253453	bioRxiv	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:

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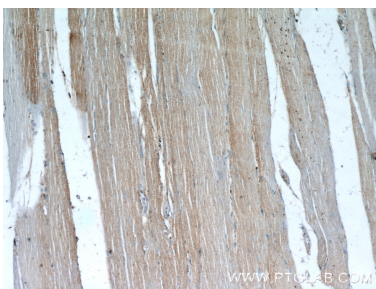
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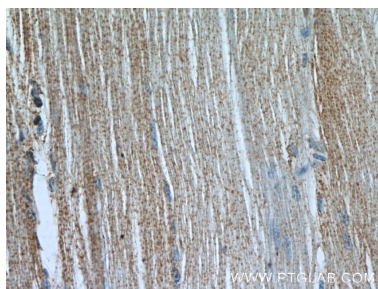
## Selected Validation Data



human brain tissue were subjected to SDS PAGE followed by western blot with 22279-1-AP (CACNA1S antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human skeletal muscle slide using 22279-1-AP (CACNA1S Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human skeletal muscle slide using 22279-1-AP (CACNA1S Antibody) at dilution of 1:50 (under 40x lens).