

For Research Use Only

CACNA1S Polyclonal antibody

Catalog Number: 22279-1-AP **2 Publications**



Basic Information

Catalog Number: 22279-1-AP	GenBank Accession Number: NM_000069	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 600 ug/ml by Nanodrop;	GeneID (NCBI): 779	Recommended Dilutions: WB 1:500-1:1000 IHC 1:20-1:200
Source: Rabbit	UNIPROT ID: Q13698	
Isotype: IgG	Full Name: calcium channel, voltage-dependent, L type, alpha 1S subunit	
	Calculated MW: 212 kDa	
	Observed MW: 200-220 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : human brain tissue, IHC : human skeletal muscle tissue,
Cited Applications: WB, IHC	
Species Specificity: human	
Cited Species: human	
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

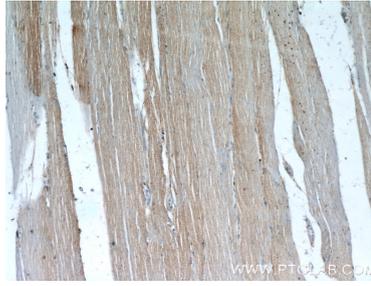
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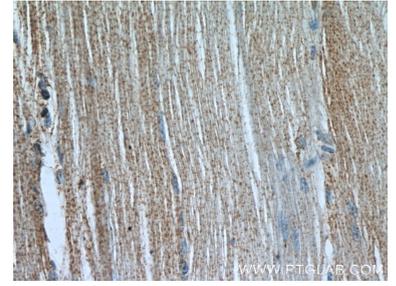
Selected Validation Data



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).