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CACNA1S Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant CACNA1S.
Catalog # AT1365a

Product Information

Application	E
Primary Accession	Q13698
Other Accession	NM_000069
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2C5
Calculated MW	212350

Additional Information

Gene ID	779
Other Names	Voltage-dependent L-type calcium channel subunit alpha-1S, Calcium channel, L type, alpha-1 polypeptide, isoform 3, skeletal muscle, Voltage-gated calcium channel subunit alpha Cav11, CACNA1S, CACH1, CACN1, CACNL1A3
Target/Specificity	CACNA1S (NP_000060, 1743 a.a. ~ 1838 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	CACNA1S Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

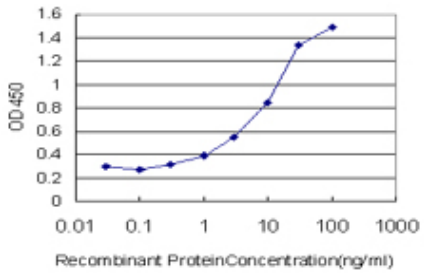
This gene encodes one of the five subunits of the slowly inactivating L-type voltage-dependent calcium channel in skeletal muscle cells. Mutations in this gene have been associated with hypokalemic periodic paralysis, thyrotoxic periodic paralysis and malignant hyperthermia susceptibility.

References

L-type voltage-dependent calcium channel alpha subunit 1C is a novel candidate gene associated with secondary hyperparathyroidism: an application of haplotype-based analysis for multiple linked single

nucleotide polymorphisms. Yokoyama K, et al. Nephron Clin Pract, 2010. PMID 20424473.Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.The role of CACNA1S in predisposition to malignant hyperthermia. Carpenter D, et al. BMC Med Genet, 2009 Oct 13. PMID 19825159.Novel CACNA1S mutation causes autosomal dominant hypokalemic periodic paralysis in a South American family. Ke T, et al. J Hum Genet, 2009 Nov. PMID 19779499.Increasing the number of diagnostic mutations in malignant hyperthermia. Levano S, et al. Hum Mutat, 2009 Apr. PMID 19191329.

Images



Detection limit for recombinant GST tagged CACNA1S is approximately 0.3ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.