

Anti-CACNG1 Antibody

Catalog # AP51881

Product Information

Application	WB, IF/IC
Primary Accession	Q06432
Reactivity	Human, Mouse, Rat, Rabbit, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	25028

Additional Information

Gene ID	786
Other Names	CACNLG; Voltage-dependent calcium channel gamma-1 subunit; DIHCydropyridine-sensitive L-type, skeletal muscle calcium channel subunit gamma
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CACNG1. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	CACNG1
Function	Regulatory subunit of the voltage-gated calcium channel that gives rise to L-type calcium currents in skeletal muscle. Regulates channel inactivation kinetics.
Cellular Location	Cell membrane, sarcolemma {ECO:0000250 UniProtKB:P19518}; Multi-pass membrane protein {ECO:0000250 UniProtKB:P19518}
Tissue Location	Skeletal muscle..

References

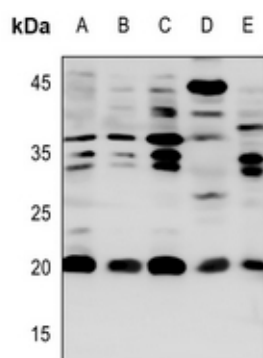
Powers P.A.,et al.J. Biol. Chem. 268:9275-9279(1993).

Ota T.,et al.Nat. Genet. 36:40-45(2004).

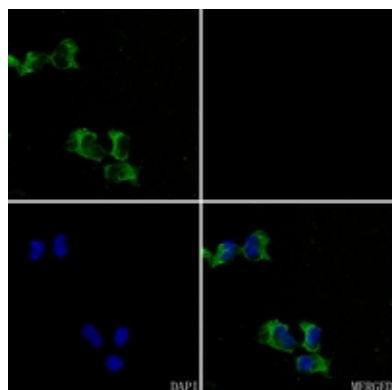
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

Iles D.E.,et al.Cytogenet. Cell Genet. 64:227-230(1993).

Images



Western blot analysis of CACNG1 expression in MCF7 (A), U2OS (B), DLD (C), mouse muscle (D), mouse brain (E) whole cell lysates. (Predicted band size: 25 kD; Observed band size: 20 kD)



Immunofluorescent analysis of CACNG1 staining in HEK293T cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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