

Rabbit CACNA2D4 Polyclonal Antibody | anti-CACNA2D4 antibody

CACNA2D4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325256	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

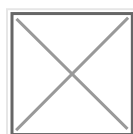
PRODUCT SYNONYMS

CACNA2D4; Polyclonal Antibody; CACNA2D4 Antibody; Calcium channel; voltage dependent; alpha 2/delta subunit 4; RCD4; Voltage dependent calcium channel subunit alpha 2/delta 4; Voltage gated calcium channel alpha(2)delta 4 subunit; Voltage gated calcium channel subunit alpha 2/delta 4; Voltage-dependent calcium channel subunit alpha-2-4; Voltage-dependent calcium channel subunit delta-4; anti-CACNA2D4 antibody

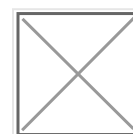
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CACNA2D4 antibody detects endogenous levels of total CACNA2D4
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1137
Applicable Applications for anti-CACNA2D4 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Membrane; Single-Pass Type I Membrane Protein
Tissue Specificity	Predominantly expressed in certain types of endocrine cells. Present in the Paneth cells of the small intestine. Also present in the erythroblasts in the fetal liver, in the cells of the zona reticularis of the adrenal gland and in the basophils of the pituitary. Present at low level in some brain regions such as the cerebellum (at protein level).
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit
Similarity	Pig (93%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES


WB (Western Blot)

Western blot analysis of extracts from 293 cells using CACNA2D4 antibody.


WB (Western Blot)

Western blot analysis of extracts from mouse brain, using CACNA2D4 Antibody.



IF (Immunofluorescence)

AAA325256 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CACNA2D4 antibody	Function: The alpha-2/delta subunit of voltage-dependent calcium channels regulates calcium current density and activation/inactivation kinetics of the calcium channel. Subunit Structure: Dimer formed of alpha-2-2 and delta-2 chains; disulfide-linked. Voltage-dependent calcium channels are multisubunit complexes, consisting of alpha-1 (CACNA1), alpha-2 (CACNA2D), beta (CACNB) and delta (CACNA2D) subunits in a 1:1:1:1 ratio (Probable). Interacts with CACNA1C and CACNB3. Post-translational Modifications: May be proteolytically processed into subunits alpha-2-4 and delta-4 that are disulfide-linked. It is however unclear whether such cleavage really takes place in vivo and has a functional role (By similarity). Similarity: The MIDAS-like motif in the VWFA domain binds divalent metal cations and is required to promote trafficking of the alpha-1 (CACNA1) subunit to the plasma membrane by an integrin-like switch. Belongs to the calcium channel subunit alpha-2/delta family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	132566536
NCBI GeneID	93589
NCBI Accession #	NP_758952.4
NCBI GenBank Nucleotide #	NM_172364.4
UniProt Accession #	Q7Z3S7; Q7Z3S8; Q86XZ5; Q8IZS9
Molecular Weight	Observed: 128 kD Predicted: 128 kDa
NCBI Official Full Name	voltage-dependent calcium channel subunit alpha-2/delta-4
NCBI Official Synonym Full Names	calcium voltage-gated channel auxiliary subunit alpha2delta 4
NCBI Official Symbol	CACNA2D4
NCBI Official Synonym Symbols	RCD4
NCBI Protein Information	voltage-dependent calcium channel subunit alpha-2/delta-4
UniProt Protein Name	Voltage-dependent calcium channel subunit alpha-2/delta-4
UniProt Gene Name	CACNA2D4

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.