Rabbit anti-Human CACNA2D1 Polyclonal Antibody | anti-CACNA2D1 antibody

Anti-CACNA2D1 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA259004	**Rabbit**	**Human**	**Immunohistochemistry, Immunofluorescence, Immunocytochemistry, Western Blot**

PRODUCT SYNONYMS

CACNA2D1; Polyclonal Antibody; Anti-CACNA2D1 Antibody; Rabbit Polyclonal; Anti-CACNA2 Antibody; Anti-CACNL2A Antibody; Anti-CCHL2A Antibody; Anti-H_DJ0560O14.1 Antibody; anti-CACNA2D1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human CACNA2D1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-CACNA2D1 antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived Human CACNA2D1 fragment
Preparation	Produced in rabbits immunized with E coli-derived Human CACNA2D1 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES

WB (Western Blot)
Anti-CACNA2D1 rabbit polyclonal antibody at 1:500 dilutionLane A: SHSY-5Y Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.Developed using the ECL technique.Performed under reducing conditions.Predicted band size:125 kDaObserved band size:150 kDa

IHC (Immunohistochemisry)
Immunochemical staining of human CACNA2D1 in human heart with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.

IHC (Immunohiostchemistry)
Immunochemical staining of human CACNA2D1 in human muscle with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.

IF (Immunofluorescence)
Immunofluorescence staining of CACNA2D1 in HeLa cells. Cells were fixed with 4% PFA, permeabilzed with 0.3% Triton X-100 in PBS,blocked with 10% serum, and incubated with rabbit anti-Human CACNA2D1 polyclonal antibody (dilution ratio 1:100) at 4? overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue).Positive staining was localized to Cytoplasm.

ADDITIONAL INFORMATION

Related Product Information for anti-CACNA2D1 antibody	Calcium channel, voltage-dependent, alpha-2/delta subunit 1 (CACNA2D1) gene encodes a member of the alpha-2/delta subunit family, proteins are accessory molecules associated with voltage-gated calcium channels and increase the density at the plasma membrane of calcium channels activated by high voltage. CACNA2D1 gene is one of the potential candidate genes influencing carcass and meat quality traits and gene-specific SNPs may be a useful marker for MAS programs in cattle breeding. CACNA2D1 gene is considered to be an important noncytokine candidate gene influencing mastitis. Voltage-gated calcium channel alpha2delta1 subunit (encoded by the gene CACNA2D1) isoform 5 is a marker of CSCs in hepatocellular carcinoma. CACNA2D1 might be involved in the process of pain by modulating the CGRP and AC-PKA/PKC/MAPK signaling pathways in the dorsal root ganglion.
References	Yuan ZR, et al. (2011) Novel snps of the bovine cacna2d1 gene and their association with carcass and meat quality traits. Mol Biol Rep 38 (1): 365-370. Sui X, et al. (2018) Calcium channel alpha2delta1 subunit (cacna2d1) enhances radioresistance in cancer stem-like cells in non-small cell lung cancer cell lines. Cancer Manag Res 10 5009-5018. Deb R, et al. (2014) Genotypic to expression profiling of bovine calcium channel, voltage-dependent, alpha-2/delta subunit 1 gene, and their association with bovine mastitis among frieswal (hfx sahiwal) crossbred cattle of indian origin. Anim Biotechnol 25 (2): 128-138.

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
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