

CACNA2D2 Antibody (clone 3A4)
Mouse Monoclonal Antibody
Catalog # ALS14329**Specification**

CACNA2D2 Antibody (clone 3A4) - Product Information

Application	WB, IHC-P, E
Primary Accession	Q9NY47
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	130kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A E~~N/A

CACNA2D2 Antibody (clone 3A4) - Additional Information**Gene ID** 9254**Other Names**

Voltage-dependent calcium channel subunit alpha-2/delta-2, Voltage-gated calcium channel subunit alpha-2/delta-2, Voltage-dependent calcium channel subunit alpha-2-2, Voltage-dependent calcium channel subunit delta-2, CACNA2D2, KIAA0558

Target/Specificity

Human CACNA2D2

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

CACNA2D2 Antibody (clone 3A4) is for research use only and not for use in diagnostic or therapeutic procedures.

CACNA2D2 Antibody (clone 3A4) - Protein Information**Name** CACNA2D2**Synonyms** KIAA0558**Function**

The alpha-2/delta subunit of voltage-dependent calcium channels regulates calcium current density and activation/inactivation kinetics of the calcium channel. Acts as a regulatory subunit for P/Q- type calcium channel (CACNA1A), N-type (CACNA1B), L-type (CACNA1C OR CACNA1D) and possibly T-type (CACNA1G) (PubMed:15111129, PubMed:23339110). Overexpression induces apoptosis.

Cellular Location

Membrane; Single-pass type I membrane protein. Note=Colocalizes with CACNA1A in lipid raft fractions.

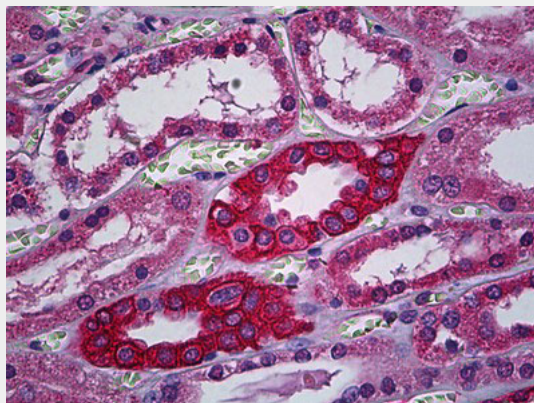
Tissue Location

Predominantly present in cerebellar cortex. Present in various lung tumor cell lines, while it is absent in normal lung (at protein level). Highly expressed in heart, lung, testis, pancreas and skeletal muscle. Also expressed in kidney, liver, placenta and brain

CACNA2D2 Antibody (clone 3A4) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CACNA2D2 Antibody (clone 3A4) - Images

Anti-CACNA2D2 antibody IHC of human kidney, tubules.

CACNA2D2 Antibody (clone 3A4) - Background

The alpha-2/delta subunit of voltage-dependent calcium channels regulates calcium current density and activation/inactivation kinetics of the calcium channel. Acts as a regulatory subunit for P/Q-type calcium channel (CACNA1A), N-type (CACNA1B), L-type (CACNA1C OR CACNA1D) and possibly T-type (CACNA1G). Overexpression induces apoptosis.

CACNA2D2 Antibody (clone 3A4) - References

- Klugbauer N., et al. J. Neurosci. 19:684-691(1999).
Gao B., et al. J. Biol. Chem. 275:12237-12242(2000).
Hobom M., et al. Eur. J. Neurosci. 12:1217-1226(2000).
Nagase T., et al. DNA Res. 5:31-39(1998).
Muzny D.M., et al. Nature 440:1194-1198(2006).