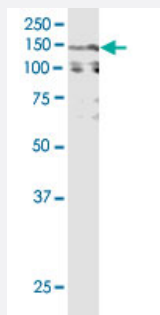


CACNA2D2 monoclonal antibody (M05), clone 3A4

Catalog # H00009254-M05

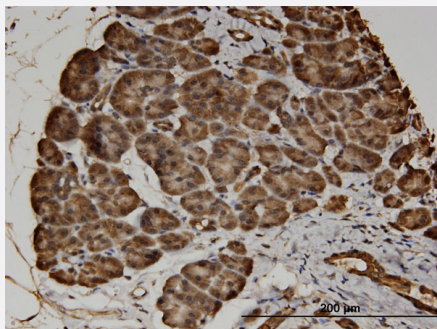
Size 100 ug

Applications



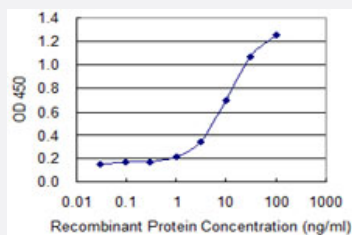
Western Blot (Cell lysate)

CACNA2D2 monoclonal antibody (M05), clone 3A4. Western Blot analysis of CACNA2D2 expression in A-431.



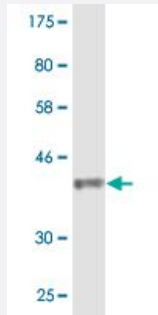
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to CACNA2D2 on formalin-fixed paraffin-embedded human pancreas. [antibody concentration 3 ug/ml]



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CACNA2D2 is 0.3 ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.52 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant CACNA2D2.
Immunogen	CACNA2D2 (NP_006021, 65 a.a. ~ 162 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	PQQHTMQHWARRLEQEVDGVMRIFGGVQQLREYKDNRLFEVQENEPQKLVEKVAGDIESLLD RKVQALKRLADAAENFQKAHRWQDNIKEEDVYY
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (97); Rat (96)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.52 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

CACNA2D2 monoclonal antibody (M05), clone 3A4. Western Blot analysis of CACNA2D2 expression in A-431.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to CACNA2D2 on formalin-fixed paraffin-embedded human pancreas. [antibody concentration 3 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CACNA2D2 is 0.3 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — CACNA2D2

Entrez GeneID [9254](#)

GeneBank Accession# [NM_006030](#)

Protein Accession# [NP_006021](#)

Gene Name CACNA2D2

Gene Alias CACNA2D, KIAA0558, LUAC11.1

Gene Description calcium channel, voltage-dependent, alpha 2/delta subunit 2

Omim ID [607082](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a member of the alpha-2/delta subunit family, a protein in the voltage-dependent calcium channel complex. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization and consist of a complex of alpha-1, alpha-2/delta, beta, and gamma subunits in a 1:1:1:1 ratio. Various versions of each of these subunits exist, either expressed from similar genes or the result of alternative splicing. Research on a highly similar protein in rabbit suggests the protein described in this record is cleaved into alpha-2 and delta subunits. Alternate transcriptional splice variants of this gene, encoding different isoforms, have been characterized. [provided by RefSeq]

Other Designations alpha 2 delta calcium channel subunit|gene 26

Pathway

- [Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#)
- [Cardiac muscle contraction](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)
- [MAPK signaling pathway](#)