

CACNA2D2 Antibody

Catalog No: #46384

Package Size: #46384-1 50ul #46384-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

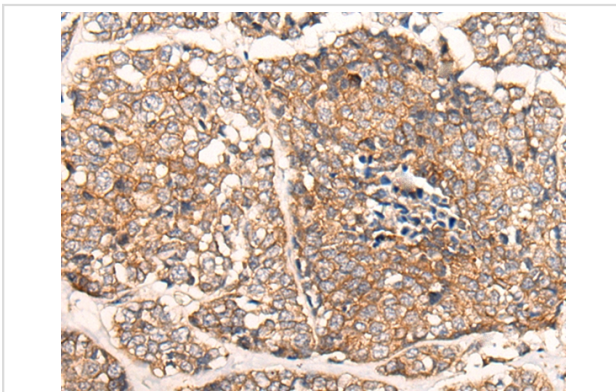
Description

Product Name	CACNA2D2 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antigen affinity purification
Applications	IHC
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous levels of total CACNA2D2 protein.
Immunogen Type	peptide
Immunogen Description	Synthetic peptide corresponding to internal residues of human CACNA2D2
Conjugates	Unconjugated
Target Name	CACNA2D2
Other Names	CACNA2D
Accession No.	Swiss-Prot:Q9NY47 NCBI Gene ID:9254NCBI Protein:NP_001167522
Concentration	1.1mg/ml
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol.
Storage	Store at -20°C

Application Details

Immunohistochemistry: 1: 30-150

Images



The image on the left is immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using 46384(CACNA2D2 Antibody) at dilution 1/45, on the right is treated with synthetic peptide. (Original magnification: x200)

Background

Calcium channels mediate the entry of calcium ions into the cell upon membrane polarization. This gene encodes the alpha-2/delta subunit of the voltage-dependent calcium channel complex. The complex consists of the main channel-forming subunit alpha-1, and auxiliary subunits alpha-2/delta, beta, and gamma. The auxiliary subunits function in the assembly and membrane localization of the complex, and modulate calcium currents and

channel activation/inactivation kinetics. The subunit encoded by this gene undergoes post-translational cleavage to yield the extracellular alpha2 peptide and a membrane-anchored delta polypeptide. This subunit is a receptor for the antiepileptic drug, gabapentin. Mutations in this gene are associated with early infantile epileptic encephalopathy. Single nucleotide polymorphisms in this gene are correlated with increased sensitivity to opioid drugs. Alternative splicing results in multiple transcript variants encoding different isoforms.?

Published Papers

Ma Zhanming;Wang Yue;Yu Yaxin;Fu Fangqiu;Zhang Yang et al., Exploring diverse programmed cell-death patterns to develop a novel gene signature for predicting the prognosis of lung adenocarcinoma patients, , (2024)

PMID:

Note: This product is for in vitro research use only and is not intended for use in humans or animals.