Anti-CACNA1A antibody

Cat. No.	ml161500
Package	25 µl/100 µl/200 µl
Storage	-20°C, pH7.4 PBS, 0.05% NaN3, 40% Glycerol

Product overview

Description	Anti-CACNA1A rabbit polyclonal antibody
Applications	ELISA, IHC
Immunogen	Synthetic peptide of human CACNA1A
Reactivity	Human
Content	0.3 mg/ml
Host species	Rabbit
Ig class	Immunogen-specific rabbit IgG
Purification	Antigen affinity purification

Target information

Symbol	CACNA1A
Full name	calcium channel, voltage-dependent, P/Q type, alpha 1A subunit
Synonyms	BI; EA2; FHM; MHP; APCA; HPCA; MHP1; SCA6; CAV2.1; CACNL1A4
Swissprot	O00555

Target Background

Voltage-dependent calcium channels mediate the entry of calcium ions into excitable cells, and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, and gene expression. Calcium channels are multisubunit complexes composed of alpha-1, beta, alpha-2/delta, and gamma subunits. The channel activity is directed by the pore-forming alpha-1 subunit, whereas, the others act as auxiliary subunits regulating this activity. The distinctive properties of the calcium channel types are related primarily to the expression of a variety of alpha-1 isoforms, alpha-1A, B, C, D, E, and S. This gene encodes the alpha-1A subunit, which is predominantly expressed in neuronal tissue. Mutations in this gene are associated with 2 neurologic disorders, familial hemiplegic migraine and episodic ataxia 2. This gene also exhibits polymorphic variation due to (CAG)n-repeats. Multiple transcript variants encoding different isoforms have been found for this gene. In one set of transcript variants, the (CAG)n-repeats occur in the 3' UTR, and are not associated with any disease. But in another set of variants, an insertion extends the coding region to include the (CAG)n-repeats which encode a polyglutamine tract. Expansion of the (CAG)n-repeats from the normal 4-16 to 21-28 in the coding region is associated with spinocerebellar ataxia 6.
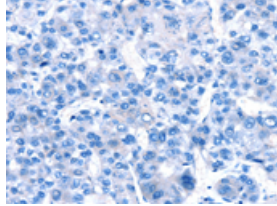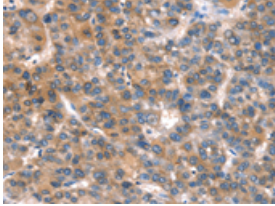
Applications

Immunohistochemistry

Predicted cell location: Cytoplasm

Positive control: Human liver cancer

Recommended dilution: 15-50

Predicted cell location: Cytoplasm

Positive control: Human gastric cancer
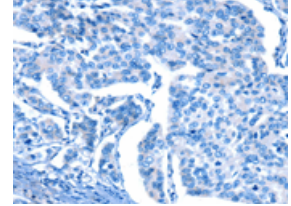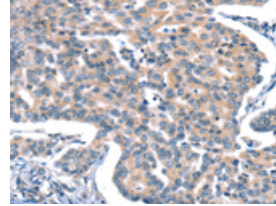
Recommended dilution: 15-50

The image on the left is immunohistochemistry of paraffin-embedded Human liver cancer tissue using ml161500(CACNA1A Antibody) at dilution 1/15, on the right is treated with synthetic peptide. (Original magnification: ×200)

The image on the left is immunohistochemistry of paraffin-embedded Human gastric cancer tissue using ml161500(CACNA1A Antibody) at dilution 1/15, on the right is treated with synthetic peptide. (Original magnification: ×200)

ELISA

Recommended dilution: 1000-2000

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