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Datasheet for ABIN751312
anti-CACNA1A antibody (AA 1401-1500) (HRP)

Overview

Quantity:	100 µL
Target:	CACNA1A
Binding Specificity:	AA 1401-1500
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CACNA1A antibody is conjugated to HRP
Application:	ELISA, Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CACNA1A
Isotype:	IgG
Cross-Reactivity:	Rat
Predicted Reactivity:	Human,Mouse,Cow,Pig,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	CACNA1A
Alternative Name:	CACNA1A/Cav2.1 (CACNA1A Products)

Target Details

Background: Synonyms: APCA, BI, Brain calcium channel 1, Brain calcium channel I, Cach4, Cacn3, Cacna1a, Cacn1a4, Calcium channel alpha 1A subunit, Calcium channel L type alpha 1 polypeptide, Calcium channel L type alpha-1 polypeptide isoform 4, Calcium channel voltage dependent, P/Q type alpha 1A subunit, CAV2.1, EA2, FHM, HPCA, MHP, MHP1, RAT brain class A, RBA-I, SCA6, Voltage-dependent P/Q-type calcium channel alpha-1A subunit, Voltage-gated calcium channel alpha subunit Cav2.1, CAC1A_HUMAN.

Background: Cav2.1 is a voltage-sensitive calcium channels (VSCC) which belongs to the calcium channel alpha-1 subunit family. Cav2.1 mediates the entry of calcium ions into excitable cells and is also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, gene expression, cell motility, cell division and cell death. Cav2.1 (isoform alpha-1A) gives rise to P and/or Q-type calcium currents. Voltage-dependent calcium channels are multisubunit complexes, consisting of alpha-1, alpha-2, beta and delta subunits in a 1:1:1:1 ratio. The channel activity is directed by the pore-forming and voltage-sensitive alpha-1 subunit. In many cases, this subunit is sufficient to generate voltage-sensitive calcium channel activity. The auxiliary subunits beta and alpha-2/delta linked by a disulfide bridge regulate the channel activity.

Gene ID: 773

Pathways: [Regulation of Hormone Metabolic Process](#), [Regulation of Hormone Biosynthetic Process](#)

Application Details

Application Notes: IHC-P 1:200-400
IHC-F 1:100-500

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Handling

Handling Advice:	Do NOT add Sodium Azide! Use of Sodium Azide will inhibit enzyme activity of horseradish peroxidase.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months