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## Datasheet for ABIN751303 **anti-CACNA1A antibody (AA 1401-1500)**

### Overview

Quantity:	100 µL
Target:	CACNA1A
Binding Specificity:	AA 1401-1500
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CACNA1A antibody is un-conjugated
Application:	ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), 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
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## Target Details

Alternative Name:	CACNA1A/Cav2.1 ( <a href="#">CACNA1A Products</a> )
Background:	<p>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.</p> <p>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.</p>
Gene ID:	773
Pathways:	<a href="#">Regulation of Hormone Metabolic Process</a> , <a href="#">Regulation of Hormone Biosynthetic Process</a>

## Application Details

Application Notes:	ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

## Handling

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Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months