

Datasheet for ABIN1394473

anti-CACNB4 antibody (AA 301-400) (Biotin)



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Overview

Quantity:	100 µL
Target:	CACNB4
Binding Specificity:	AA 301-400
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CACNB4 antibody is conjugated to Biotin
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CACNB4/L-type Ca ⁺⁺ CP beta 4
Isotype:	IgG
Predicted Reactivity:	Human, Mouse, Rat, Dog, Cow, Sheep, Pig, Chicken
Purification:	Purified by Protein A.

Target Details

Target:	CACNB4
Alternative Name:	CACNB4/L-type Ca ⁺⁺ CP_4 (CACNB4 Products)
Background:	Synonyms: CAB4, CACB4_HUMAN, Cacnb4, CACNLB4, Calcium channel voltage dependent

Target Details

beta 4 subunit, Calcium channel voltage dependent subunit beta 4, Calcium channel voltage-dependent subunit beta 4, Dihydropyridine sensitive L type calcium channel beta 4 subunit, EA5, EIG9, EJM, EJM4, Voltage-dependent L-type calcium channel subunit beta-4.

Background: Voltage-dependent calcium channels are essential for the release of neurotransmitters. L-type (long lasting current) voltage-dependent calcium channels are composed of four subunits: an Alpha1 subunit, a Beta subunit, a Beta subunit and an Alpha2 Gamma subunit. The Beta subunit is encoded by four genes, designated Beta1-Beta 4, all of which contribute to the diversity of calcium currents and are involved in membrane trafficking of the Beta subunit. L-type Ca⁺⁺ CP Beta 4, also known as CACNB4 (Calcium channel voltage-dependent subunit beta 4), CACNLB4 or CAB4, is a 484 amino acid protein that contains one SH3 domain and is expressed in ovary, brain and smooth muscle. Functioning as one of the four components of the Beta subunit, L-type Ca⁺⁺ CP Beta 4 increases the peak calcium current in voltage-dependent calcium channels, thereby shifting the voltage dependencies of activation and inactivation and controlling G protein inhibition and Beta membrane targeting. Two isoforms of L-type Ca⁺⁺ CP Beta4 exist due to alternative splicing events.

Pathways: [cAMP Metabolic Process](#), [Skeletal Muscle Fiber Development](#)

Application Details

Application Notes: WB 1:300-5000
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.

Storage: -20 °C

Handling

Storage Comment:	Store at -20°C for 12 months.
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Expiry Date:	12 months
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