

Product datasheet

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ARG40114 anti-PPP1CB antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes PPP1CB

Tested Reactivity Hu, Ms, Rat

Predict Reactivity Bov, Chk, Pig, Rb, Xenopus

Tested Application WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name PPP1CB
Species Human

Immunogen KLH-conjugated synthetic peptide corresponding to aa. 298-327 of Human PPP1CB.

Conjugation Un-conjugated

Alternate Names PPP1CD; PP1beta; PP-1B; Serine/threonine-protein phosphatase PP1-beta catalytic subunit; EC

3.1.3.16; PP1B; HEL-S-80p; EC 3.1.3.53

Application Instructions

Application table	Application	Dilution
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HT-29	

Properties

Form Liquid

Purification Purification with Protein A and immunogen peptide.

Buffer PBS and 0.09% (W/V) Sodium azide.

Preservative 0.09% (W/V) Sodium azide.

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol PPP1CB

Gene Full Name protein phosphatase 1, catalytic subunit, beta isozyme

Background The protein encoded by this gene is one of the three catalytic subunits of protein phosphatase 1 (PP1).

PP1 is a serine/threonine specific protein phosphatase known to be involved in the regulation of a variety of cellular processes, such as cell division, glycogen metabolism, muscle contractility, protein synthesis, and HIV-1 viral transcription. Mouse studies suggest that PP1 functions as a suppressor of learning and memory. Two alternatively spliced transcript variants encoding distinct isoforms have

been observed. [provided by RefSeq, Jul 2008]

Function Protein phosphatase that associates with over 200 regulatory proteins to form highly specific

holoenzymes which dephosphorylate hundreds of biological targets. Protein phosphatase (PP1) is essential for cell division, it participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. Involved in regulation of ionic conductances and long-term synaptic plasticity. Component of the PTW/PP1 phosphatase complex, which plays a role in the control of chromatin structure and cell cycle progression during the transition from mitosis into interphase. In balance with CSNK1D and CSNK1E, determines the circadian period length, through the regulation of the speed and rhythmicity of PER1 and PER2 phosphorylation. May dephosphorylate CSNK1D and CSNK1E. Dephosphorylates the 'Ser-418' residue of FOXP3 in regulatory T-cells (Treg) from patients with rheumatoid arthritis, thereby inactivating FOXP3 and rendering Treg cells functionally defective. [UniProt]

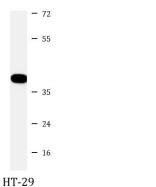
Calculated Mw 37 kDa

Cellular Localization Cytoplasm. Nucleus. Nucleus, nucleoplasm. Nucleus, nucleolus. Note=Highly mobile in cells and can be

relocalized through interaction with targeting subunits. In the presence of PPP1R8 relocalizes from the

nucleus to nuclear speckles. [UniProt]

Images



ARG40114 anti-PPP1CB antibody WB image

Western blot: 35 μg of HT-29 cell lysate stained with ARG40114 anti-PPP1CB antibody at 1:1000 dilution.