abcam

Product datasheet

Recombinant Human PP1C gamma protein ab152022

Description

Product name	Recombinant Human PP1C gamma protein
Purity	> 95 % SDS-PAGE. Purity is greater than 95% as determined by reducing SDS-PAGE. ab152022 has been 0.2 µM filtered.
Endotoxin level	< 1.000 Eu/µg
Expression system	Escherichia coli
Accession	P36873
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MADLDKLNIDSIIQRLLEVRGSKPGKNVQLQENEIRGLCLK SREIFLSQP ILLELEAPLKICGDIHGQYYDLLRLFEYGGFPPESNYLFLGD YVDRGKQS LETICLLLAYKIKYPENFFLLRGNHECASINRIYGFYDECKRR YNIKLWK TFTDCFNCLPIAAIVDEKIFCCHGGLSPDLQSMEQIRRIMRP TDVPDQGL LCDLLWSDPDKDVLGWGENDRGVSFTFGAEVVAKFLHK HDLDLICRAHQV VEDGYEFFAKRQLVTLFSAPNYCGEFDNAGAMMSVDETL MCSFQILKPAE KKKPNATRPVTPPRGMITKQAKK
Predicted molecular weight	37 kDa
Amino acids	1 to 323
Tags	His tag C-Terminus , His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab152022** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE

Form	Liquid

Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.02% DTT, 0.32% Tris HCl

General Info

Function	Protein phosphatase 1 (PP1) is essential for cell division, and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. Involved in regulation of ionic conductances and long-term synaptic plasticity. May play an important role in dephosphorylating substrates such as the postsynaptic density-associated Ca(2+)/calmodulin dependent protein kinase II. 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.
Sequence similarities	Belongs to the PPP phosphatase family. PP-1 subfamily.
Cellular localization	Cytoplasm. Nucleus. Nucleus > nucleolus. Nucleus > nucleoplasm. Nucleus speckle. Chromosome > centromere > kinetochore. Cleavage furrow. Midbody. Colocalizes with SPZ1 in the nucleus (By similarity). Rapidly exchanges between the nucleolar, nucleoplasmic and cytoplasmic compartments. Highly mobile in cells and can be relocalized through interaction with targeting subunits. In the presence of PPP1R8 relocalizes from the nucleolus to nuclear speckles. Shows a dynamic targeting to specific sites throughout the cell cycle. Highly concentrated in nucleoli of interphase cells and localizes at kinetochores early in mitosis. Relocalization to chromosome-containing regions occurs at the transition from early to late anaphase. Also accumulates at the cleavage furrow and midbody by telophase.

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