

Recombinant Human PP2A-alpha protein (Tagged) ab114424

1 图像

描述

产品名称	重组人PP2A-alpha蛋白(Tagged)
表达系统	Wheat germ
Accession	<u>P67775</u>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MDEKVFTKELDQWIEQLNECKQLSESQVKSLCEKAKEILTKE SNVQEVRC PVTVCGDVHGQFHDLMELEFRIGGKSPDTNYLFMGDYVDRGYY SVETVTLL VALKVRYSRERITILRGNHESRQITQVYGFYDECLRKYGNANV WKYFTDLF DYLPLTALVDGQIFCLHGGLSPSIDTLDHIRALDRLQVEPHE GPMCDLLW SDPDDRGGWGISPRGAGYTFGQDISETFNHANGLLVSRHQ LVMEGYNW CHDRNVVTIFSAAPNYCYRCGNQAAIMELDDTLKYSFLQFDPA PRRGEPHV TRRTPDYFL
预测分子量	60 kDa including tags
氨基酸	1 to 309
标签	GST tag N-Terminus

技术指标

Our **Abpromise guarantee** covers the use of **ab114424** in the following tested applications.

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

应用	ELISA Western blot SDS-PAGE
形式	Liquid

制备和贮存

稳定性和存储

Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 8.00

Constituents: 0.3% Glutathione, 0.79% Tris HCl

常规信息

功能

PP2A can modulate the activity of phosphorylase B kinase casein kinase 2, mitogen-stimulated S6 kinase, and MAP-2 kinase. Cooperates with SGOL2 to protect centromeric cohesin from separase-mediated cleavage in oocytes specifically during meiosis I (By similarity). Can dephosphorylate SV40 large T antigen and p53/TP53. Dephosphorylates SV40 large T antigen, preferentially on serine residues 120, 123, 677, and perhaps 679. The C subunit was most active, followed by the AC form, which was more active than the ABC form, and activity of all three forms was strongly stimulated by manganese, and to a lesser extent by magnesium. Dephosphorylation by the AC form, but not C or ABC form is inhibited by small T antigen.

序列相似性

Belongs to the PPP phosphatase family. PP-1 subfamily.

翻译后修饰

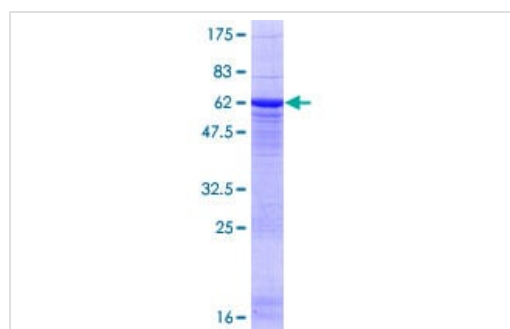
Reversibly methyl esterified on Leu-309. Carboxyl methylation may play a role in holoenzyme assembly. It varies during the cell cycle.

Phosphorylation of either threonine (by autophosphorylation-activated protein kinase) or tyrosine results in inactivation of the phosphatase. Auto-dephosphorylation has been suggested as a mechanism for reactivation.

细胞定位

Cytoplasm. Nucleus. Chromosome > centromere. Cytoplasm > cytoskeleton > spindle pole. In prometaphase cells, but not in anaphase cells, localizes at centromeres. During mitosis, also found at spindle poles. Centromeric localization requires the presence of SGOL2.

图片



ab114424 analysed on a 12.5% SDS-PAGE gel stained with Coomassie Blue.

SDS-PAGE - Recombinant Human PP2A-alpha protein (ab114424)

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