abcam

Product datasheet

Recombinant Human PKA beta (catalytic subunit) protein (denatured) ab180275

1 Image

Description

Product name Recombinant Human PKA beta (catalytic subunit) protein (denatured)

Purity > 80 % SDS-PAGE.

Expression system Escherichia coli

Accession P22694-2

Protein length Full length protein

Animal free No

Nature Recombinant

Species Human

Sequence MGSSHHHHHHSSGLVPRGSHMGSMAAYREPPCNQYTGT

TTALQKLEGFAS

RLFHRHSKGTAHDQKTALENDSLHFSEHTALWDRSMKEF

LAKAKEDFLKK

WENPTQNNAGLEDFERKKTLGTGSFGRVMLVKHKATEQY

YAMKILDKQKV

VKLKQIEHTLNEKRILQAVNFPFLVRLEYAFKDNSNLYMVM

EYVPGGEMF

SHLRRIGRFSEPHARFYAAQIVLTFEYLHSLDLIYRDLKPEN

LLIDHQGY

IQVTDFGFAKRVKGRTWTLCGTPEYLAPEIILSKGYNKAVD

WWALGVLIY

 ${\tt EMAAGYPPFFADQPIQIYEKIVSGKVRFPSHFSSDLKDLLR}$

NLLQVDLTK

RFGNLKNGVSDIKTHKWFATTDWIAIYQRKVEAPFIPKFRG

SGDTSNFDD YEEEDIRVSITEKCAKEFGEF

Predicted molecular weight 49 kDa including tags

Amino acids 1 to 398

Tags His tag N-Terminus

Additional sequence information NP_891993.

Description Recombinant Human PKA beta (catalytic subunit) protein

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Specifications

Our **Abpromise guarantee** covers the use of **ab180275** 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 at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -

80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 0.32% Tris HCl, 2.4% Urea, 10% Glycerol (glycerin, glycerine)

General Info

Function Mediates cAMP-dependent signaling triggered by receptor binding to GPCRs. PKA activation

regulates diverse cellular processes such as cell proliferation, the cell cycle, differentiation and regulation of microtubule dynamics, chromatin condensation and decondensation, nuclear envelope disassembly and reassembly, as well as regulation of intracellular transport

mechanisms and ion flux.

Tissue specificity Isoform 1 is most abundant in the brain, with low level expression in kidney. Isoform 2 is

predominantly expressed in thymus, spleen and kidney. Isoform 3 and isoform 4 are only

expressed in the brain.

Sequence similaritiesBelongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. cAMP subfamily.

Contains 1 AGC-kinase C-terminal domain.

Contains 1 protein kinase domain.

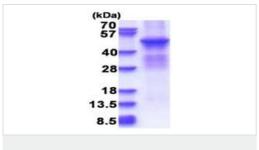
Post-translational Asn-3 is partially deaminated to Asp giving rise to 2 major isoelectric variants, called CB and CA

modifications respectively.

Cytoplasm. Nucleus. Translocates into the nucleus (monomeric catalytic subunit) (By similarity).

The inactive holoenzyme is found in the cytoplasm.

Images



SDS-PAGE - Recombinant Human PKA beta (catalytic subunit) protein (denatured) (ab180275)

15% SDS-PAGE analysis of ab180275 (3 μ g).

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