

Product datasheet for TP307218M

OriGene Technologies, Inc.

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PRKACB (NM 002731) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human protein kinase, cAMP-dependent, catalytic, beta (PRKACB),

transcript variant 2, 100 µg

Species: Human
Expression Host: HEK293T

Expression cDNA Clone >RC207218 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s)

MGNAATAKKGSEVESVKEFLAKAKEDFLKKWENPTQNNAGLEDFERKKTLGTGSFGRVMLVKHKATEQYY AMKILDKQKVVKLKQIEHTLNEKRILQAVNFPFLVRLEYAFKDNSNLYMVMEYVPGGEMFSHLRRIGRFS EPHARFYAAQIVLTFEYLNSLDIIYRDLKPENLLIDHQGYIQVTDFGFAKRVKGRTWTLCGTPEYLAPEI ILSKGYNKAVDWWALGVLIYEMAAGYPPFFADQPIQIYEKIVSGKVRFPSNFSSDLKDLLRNLLQVDLTK RFGNLKNGVSDIKTHKWFATTDWIAIYQRKVEAPFIPKFRGSGDTSNFDDYEEEDIRVSITEKCAKEFGE

F

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 40.4 kDa

Concentration: $>0.05 \mu g/\mu L$ as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by

conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 002722





Locus ID: 5567

UniProt ID: <u>P22694</u>, <u>B2RB89</u>

RefSeq Size: 4616 Cytogenetics: 1p31.1 RefSeq ORF: 1053

Synonyms: CAFD2; PKA C-beta; PKACB

Summary: The protein encoded by this gene is a member of the serine/threonine protein kinase family.

The encoded protein is a catalytic subunit of cAMP (cyclic AMP)-dependent protein kinase, which mediates signalling though cAMP. cAMP signaling is important to a number of processes, including cell proliferation and differentiation. Multiple alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul

2014]

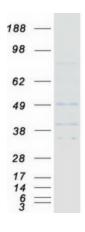
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Apoptosis, Calcium signaling pathway, Chemokine signaling pathway, Dilated cardiomyopathy,

Gap junction, GnRH signaling pathway, Hedgehog signaling pathway, Insulin signaling pathway, Long-term potentiation, MAPK signaling pathway, Melanogenesis, Olfactory transduction, Oocyte meiosis, Prion diseases, Progesterone-mediated oocyte maturation, Taste transduction, Vascular smooth muscle contraction, Vibrio cholerae infection, Wnt

signaling pathway

Product images:



Coomassie blue staining of purified PRKACB protein (Cat# [TP307218]). The protein was produced from HEK293T cells transfected with PRKACB cDNA clone (Cat# [RC207218]) using MegaTran 2.0 (Cat# [TT210002]).