

DNAxPAb

Hard-to-Find
Antibody

PRKACB DNAxPab

Catalog # H00005567-W01P Size 200 ug

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human PRKACB DNA using DNAx™ Immune technology.
Technology	DNAx™ Immune
Immunogen	Full-length human DNA
Sequence	MGNAATAKKGSEVESVKEFLAKAKEDFLKKWENPTQNNAGLEDFERKKTLTGTSFGRVMLVKH KATEQYYAMKILDKQKVVKLKQIEHTLNEKRILQAVNFPFLVRLEYAFKDNSNLYMVMYVPGGEM FSLRRIGRFSEPHARFYAAQVLTFEYLHSLDLYRDLKPENLLIDHQGYQVTDGFGAKRVKGRTW TLCGTPEYLAPEIILSKGYNKAVDWWALGVLIYEMAAGYPPFFADQPIQIYEKIVSGKVRFP SHFSS DLKDLLRNLLQVDLTKRFGNLKNGVSDIKTHKWFATTDWIANYQRKVEAPFIPKFRGSGDTSNFDD YEEEDIRVSITEKCAKEFGEF
Host	Rabbit
Reactivity	Human
Purification	Protein A
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)

- Flow Cytometry (Transfected cell)

Gene Info — PRKACB

Entrez GeneID [5567](#)

GeneBank Accession# [NM_002731.2](#)

Protein Accession# [NP_002722.1](#)

Gene Name PRKACB

Gene Alias DKFZp781I2452, MGC41879, MGC9320, PKACB

Gene Description protein kinase, cAMP-dependent, catalytic, beta

Omim ID [176892](#)

Gene Ontology [Hyperlink](#)

Gene Summary

cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase, which transduces the signal through phosphorylation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits have been identified in humans. The protein encoded by this gene is a member of the Ser/Thr protein kinase family and is a catalytic subunit of cAMP-dependent protein kinase. Three alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq]

Other Designations

OTTHUMP00000011663|OTTHUMP00000011664|OTTHUMP00000011666|PKA C-beta|cAMP-dependent protein kinase catalytic beta subunit isoform 4ab|cAMP-dependent protein kinase catalytic subunit beta|protein kinase A catalytic subunit beta

Pathway

- [Apoptosis](#)
- [Calcium signaling pathway](#)
- [Chemokine signaling pathway](#)
- [Gap junction](#)
- [GnRH signaling pathway](#)
- [Hedgehog signaling pathway](#)

- [Insulin signaling pathway](#)
- [Long-term potentiation](#)
- [MAPK signaling pathway](#)
- [Melanogenesis](#)
- [Olfactory transduction](#)
- [Prion diseases](#)
- [Taste transduction](#)
- [Vascular smooth muscle contraction](#)
- [Vibrio cholerae infection](#)
- [Wnt signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Cardiovascular Diseases](#)
- [Diabetes Complications](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Osteoporosis](#)