

DNAxPAb

Hard-to-Find
Antibody

PRKACA DNAxPab

Catalog # H00005566-W01P Size 200 ug

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human PRKACA DNA using DNAx™ Immune technology.
Technology	DNAx™ Immune
Immunogen	Full-length human DNA
Sequence	MGNAAAACGGSEQESVKEFLAKAKEDFLKKWESPAQNTAHLDDQFERIKTLGTGSFGRVMLVKH KETGNHYAMKILDKQKVVKLKQIEHTLNEKRILQAVNFPFLVKLEFSFKDNSNLYMMEYVPGGEM FSLRRIGRFSEPHARFYAAQVLTFEYLHSLDLYRDLKPENLLIDQQGYQVTDGFGAKRVKGRTW TLCGTPEYLAPEIILSKGYNKAVDWWALGVLIYEMAAGYPPFFADQPIQIYEKIVSGKVRFP SHFSS DLKDLLRNLLQVDLTKRFGNLKNGVNDIKNHKWFAATTDWAIYQRKVEAPFIPKFKGPGDTSNFDD YEEEEIRVSINEKCGKEFSEF
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 — PRKACA

Entrez GeneID [5566](#)

GeneBank Accession# [NM_002730.3](#)

Protein Accession# [NP_002721.1](#)

Gene Name PRKACA

Gene Alias MGC102831, MGC48865, PKACA

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

Omim ID [601639](#)

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. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq]

Other Designations

PKA C-alpha|cAMP-dependent protein kinase catalytic subunit alpha|cAMP-dependent protein kinase catalytic subunit alpha, isoform 1|protein kinase A catalytic subunit

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](#)