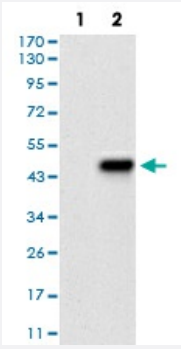
PRKACA monoclonal antibody, clone 7H3A4

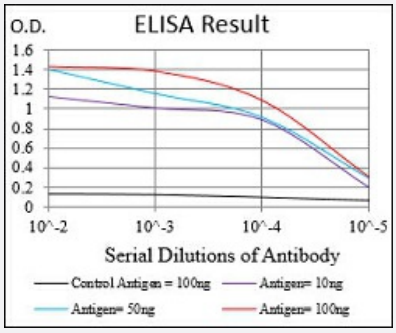
Catalog # MAB16593 Size 100 ug

Applications



Western Blot (Transfected lysate)

Western blot analysis of Lane 1: HEK293 cell; Lane 2: PRKACA-hIgGFc transfected HEK293 cell with PRKACA monoclonal antibody.



Enzyme-linked Immunoabsorbent Assay

ELISA analysis of PRKACA monoclonal antibody, clone 7H3A4.

Specification

Product Description	Mouse monoclonal antibody raised against recombinant human PRKACA.
Immunogen	Recombinant protein corresponding to amino acid 1-120 of human PRKACA from *E. coli*.
Host	Mouse
Theoretical MW (kDa)	40.6
Reactivity	Human
Form	Liquid
Isotype	IgG1

Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Transfected lysate)

  Western blot analysis of Lane 1: HEK293 cell; Lane 2: PRKACA-hIgGFc transfected HEK293 cell with PRKACA monoclonal antibody.

- Enzyme-linked Immunoabsorbent Assay

  ELISA analysis of PRKACA monoclonal antibody, clone 7H3A4.

Gene Info — PRKACA

Entrez GeneID	5566
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 phosphoryl ation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two r egulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme int o a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. F our different regulatory subunits and three catalytic subunits have been identified in humans. The p rotein encoded by this gene is a member of the Ser/Thr protein kinase family and is a catalytic su bunit 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