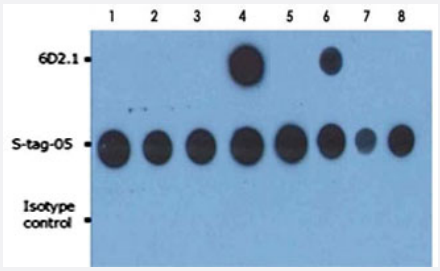
PRKACA monoclonal antibody, clone 6D2.1

Catalog # MAB3591 Size 100 ug

Applications



Dot Blot

Dot Blot analysis of GST and GST-fusion proteins using PRKACA monoclonal antibody, clone 6D2.1 (Cat # MAB3591) and GST monoclonal antibody, clone S-tag-05 (Cat # MAB3651).
The total amount of material spotted on the nitrocellulose membrane is 5 ng/spot.
Lane 1 : GST-Akt1.
Lane 2 : GST-Akt2.
Lane 3 : GST-Akt3.
Lane 4 : GST-PKAc alpha.
Lane 5 : GST-PKAc beta.
Lane 6 : GST-PKAc gamma.
Lane 7 : GST-MEK 1.
Lane 8 : GST.

Specification

Product Description	Mouse monoclonal antibody raised against synthetic peptide of PRKACA.
Immunogen	A synthetic peptide corresponding to human PRKACA.
Sequence	ESPAQNTAHLDQFERIK
Host	Mouse
Theoretical MW (kDa)	40
Reactivity	Human
Specificity	This antibody strongly reacts with human proteinkinase A catalytic (PRKACA) alpha subunit, and we akly with PKAc gamma subunit (both around 40 KDa). The recognized epitope of PKAc alpha is ide ntical between man, sheep, pig, ox and dog.

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Form	Liquid
Isotype	IgG
Recommend Usage	Western Blot (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (0.09% sodium azide)
Storage Instruction	Store at 4°C. Do not freeze. 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
- Dot Blot

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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

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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

Publication Reference

- New faces of the familiar clathrin lattice.

  Wilbur JD, Hwang PK, Brodsky FM.

  Traffic (Copenhagen, Denmark) 2005 Apr; 6(4):346.

- Cargo- and compartment-selective endocytic scaffold proteins.

  Szymkiewicz I, Shupliakov O, Dikic I.

  The Biochemical Journal 2004 Oct; 383(Pt 1):1.

  Application: WB, Human, Mammalian cells

- Monoclonal antibody BF-06 against the heavy chain of clathrin.

  Macurek L, Zikova M, Draberova E, Draber P.

  Folia Biologica 2003 Dec; 49(6):238.

Pathway

- Apoptosis
- Calcium signaling pathway
- Chemokine signaling pathway
- Gap junction
- GnRH signaling pathway
- Hedgehog signaling pathway

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- 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

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