

Anti-PKAc Purified PRKACA Monoclonal Antibody

Catalog Number: M00653

About PRKACA

Protein kinase A (PKA, cAMP-dependent protein kinase) is a key element of a ubiquitous signaling pathway important in the cell cycle, cellular communication, memory formation and behavior. PKA is composed of two catalytic (PKAc; protein kinase A catalytic subunit) and two regulatory subunits (PKAr). Upon binding cAMP, the complex dissociates to PKAr dimer and two activated PKAc ser/thr protein kinase catalytic monomers. The released PKAc can translocate into the nucleus and exert a regulatory role in the activation of multiple nuclear hormone receptors. However, PKAc-mediated activation of tonicity-dependent gene expression is cAMP independent. Humans express three types of PKAc subunit –; PKAc alpha is present in most human tissues, PKAc beta and gamma are tissue-specific, the later is found in testes.

Overview

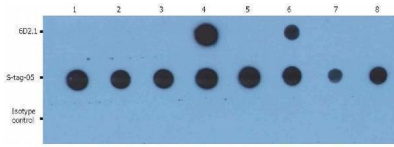
Product Name	Anti-PKAc Purified PRKACA Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-PKAc Purified PRKACA Monoclonal Antibody (Catalog# M00653). Tested in WB application(s). This antibody reacts with Human.
Application	WB
Clonality	Monoclonal 6D2.1
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	P17612

Technical Details

Immunogen	Peptide corresponding to amino acids ESPAQNTAHLDQFERIK of human protein kinase A c alpha (PKAc alpha). The mouse monoclonal antibody 6D2.1 strongly reacts with human protein kinase A (an intracellular antigen) catalytic (PKAc) alpha subunit, and weakly with PKAc gamma subunit (both around 40 kDa). The recognized epitope of PKAc alpha is identical between man, sheep, pig, ox and dog.
Predicted Reactive Species	Primate
Isotype	Mouse IgG1
Form	Liquid
Concentration	1 mg/ml

Purification	Purified by protein-A affinity chromatography.
Suggested Dilutions	Western blotting: 1 ug/ml; positive control: HeLa human cervix carcinoma cell line. To detect PKAc gamma, use a more concentrated lysate from a tissue expressing this subunit (testis).

Anti-PKAc Purified PRKACA Monoclonal Antibody (M00653) Images



Dot blot analysis of GST and GST-fusion proteins using anti-PKAc (6D2.1) and anti-GST (S-tag-05). 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

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