Datasheet for ABIN302080

# anti-PRKACA antibody

## 1 Image

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## Overview

| | |
|---|---|
| Quantity: | 0.1 mg |
| Target: | PRKACA |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This PRKACA antibody is un-conjugated |
| Application: | Western Blotting (WB) |

## Product Details

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| Immunogen: | Peptide corresponding to amino acids ESPAQNTAHLDQFERIK of human proteinkinase A c alpha (PKAc alpha). |
| Clone: | 6D2-1 |
| Isotype: | IgG1 |
| Specificity: | The mouse monoclonal antibody 6D2.1 strongly reacts with human proteinkinase 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. |
| Cross-Reactivity (Details): | Human, Other not determined |
| Purification: | Purified by protein-A affinity chromatography. |
| Purity: | > 95 % (by SDS-PAGE) |

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## Target Details

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|---|---|
| Target: | PRKACA |
| Alternative Name: | PKAc (PRKACA Products) |
| Background: | Protein kinase cAMP-activated catalytic subunit al,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, proteinkinase 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.,PKACA, PPNAD4, PRKACA, Proteinkinase Ac |
| Gene ID: | 5566 |
| UniProt: | P17612 |
| Pathways: | NF-kappaB Signaling, Hedgehog Signaling, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Thyroid Hormone Synthesis, Carbohydrate Homeostasis, Myometrial Relaxation and Contraction, M Phase, G-protein mediated Events, Signaling Events mediated by VEGFR1 and VEGFR2, Interaction of EGFR with phospholipase C-gamma, Thromboxane A2 Receptor Signaling, VEGFR1 Specific Signals, Lipid Metabolism, SARS-CoV-2 Protein Interactome, The Global Phosphorylation Landscape of SARS-CoV-2 Infection |

## Application Details

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| Application Notes: | Western blotting: Recommended dilution: 1 µg/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). |
| Restrictions: | For Research Use only |

## Handling

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| Concentration: | 1 mg/mL |
| Buffer: | Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which |

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## Handling

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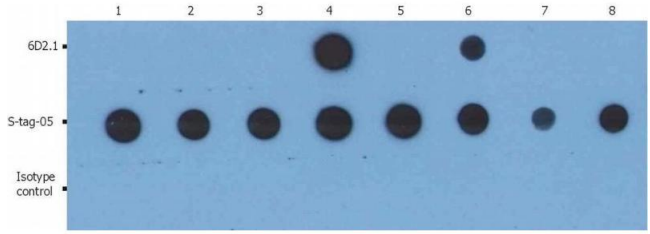
|---|---|
| | should be handled by trained staff only. |
| Handling Advice: | **Do not freeze.** |
| Storage: | 4 °C |
| Storage Comment: | Store at 2-8°C. Do not freeze. |

## Images




**Dot Blot**

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

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