10320 Camino Santa Fe, Suite G
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# PRKACG Antibody
**Purified Mouse Monoclonal Antibody**
**Catalog # AO1716a**

## Specification

## PRKACG Antibody - Product Information

| | |
|---|---|
| Application | **WB, IHC, FC, E** |
| Primary Accession | P22612 |
| Reactivity | **Human** |
| Host | **Mouse** |
| Clonality | **Monoclonal** |
| Isotype | **IgG1** |
| Calculated MW | **40.4kDa KDa** |

**Description**
Cyclic AMP-dependent protein kinase (PKA) consists of two catalytic subunits and a regulatory subunit dimer. This gene encodes the gamma form of its catalytic subunit. The gene is intronless and is thought to be a retrotransposon derived from the gene for the alpha form of the PKA catalytic subunit.

**Immunogen**
Purified recombinant fragment of human PRKACG expressed in E. Coli. <br />

**Formulation**
Ascitic fluid containing 0.03% sodium azide. <br />

## PRKACG Antibody - Additional Information

**Gene ID** 5568

**Other Names**
cAMP-dependent protein kinase catalytic subunit gamma, PKA C-gamma, 2.7.11.11, PRKACG

**Dilution**
WB~~1/500 - 1/2000
IHC~~1/200 - 1/1000
FC~~1/200 - 1/400
E~~1/10000

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
PRKACG Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## PRKACG Antibody - Protein Information

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**Name** PRKACG

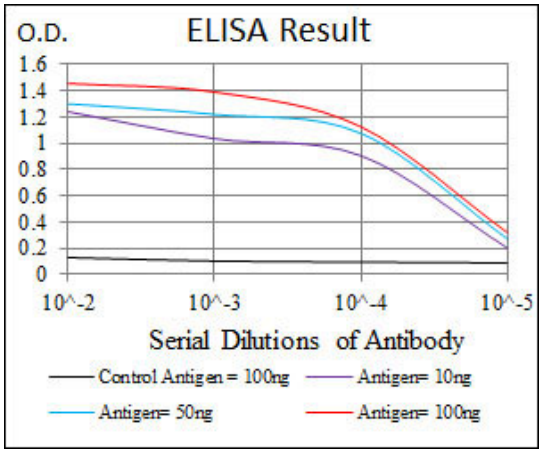
**Function**
Phosphorylates a large number of substrates in the cytoplasm and the nucleus.

**Tissue Location**
Testis specific. But important tissues such as brain and ovary have not been analyzed for the content of transcript

## PRKACG Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture



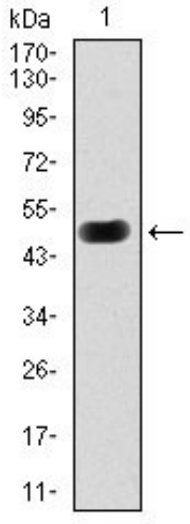




Figure 1: Western blot analysis using PRKACG mAb against human PRKACG (AA: 164-351)

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recombinant protein. (Expected MW is 47.1 kDa)

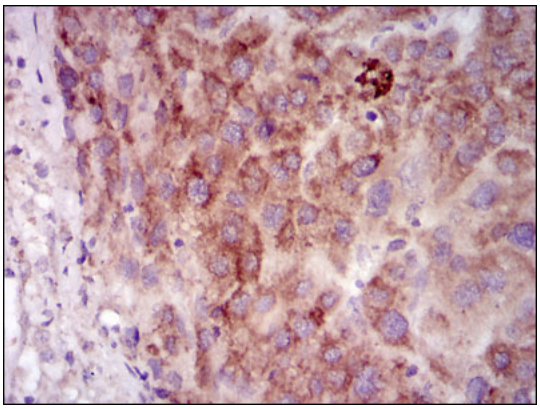

Figure 2: Immunohistochemical analysis of paraffin-embedded liver cancer tissues using PRKACG mouse mAb with DAB staining.

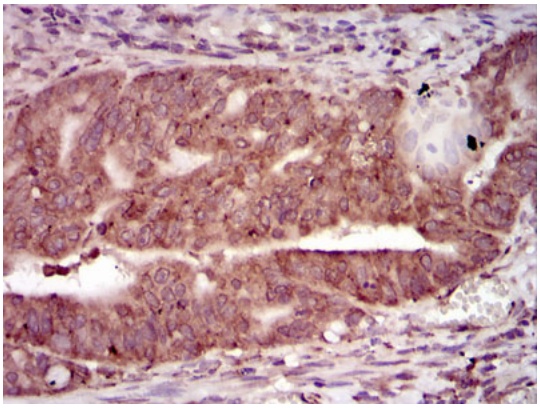

Figure 3: Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using PRKACG mouse mAb with DAB staining.

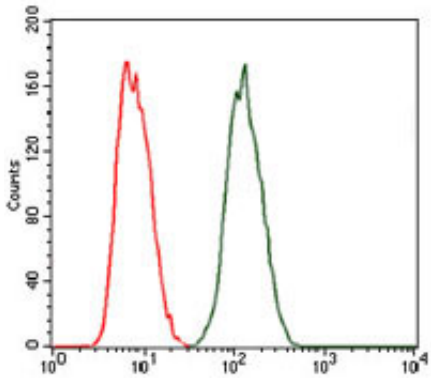


Figure 4: Flow cytometric analysis of MCF-7 cells using PRKACG mouse mAb (green) and negative control (red).

## PRKACG Antibody - References

1. Mol Cells. 2009 Jul 31;28(1):67-71. 2. J Clin Endocrinol Metab. 2009 Jul;94(7):2406-13.