

For Research Use Only

# PRKRA Monoclonal antibody

Catalog Number: 68518-1-Ig



## Basic Information

|  |   |   |
|--|---|---|
| <b>Catalog Number:</b><br>68518-1-Ig                           | <b>GenBank Accession Number:</b><br>BC009470  | <b>Purification Method:</b><br>Protein A purification                   |
| <b>Size:</b><br>150ul , Concentration: 1000 ug/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>8575   | <b>CloneNo.:</b><br>1D4C3   |
| <b>Source:</b><br>Mouse  | <b>UNIPROT ID:</b><br>O75569  | <b>Recommended Dilutions:</b><br>WB 1:2000-1:10000<br>IHC 1:1000-1:4000 |
| <b>Isotype:</b><br>IgG2b                                       | <b>Full Name:</b><br>protein kinase, interferon-inducible double stranded RNA dependent activator |   |
| <b>Immunogen Catalog Number:</b><br>AG29818                    | <b>Calculated MW:</b><br>34 kDa   |   |
|  | <b>Observed MW:</b><br>34 kDa   |   |

## Applications

### Tested Applications:

WB, IHC, ELISA

### Species Specificity:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB** : A549 cells, HeLa cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells

**IHC** : human ovary cancer tissue, mouse brain tissue, rat brain tissue, rat cerebellum tissue

## Background Information

PRKRA (PKR-associated protein X) is also named as PACT, RAX, HSD-14 and HSD14. PRKRA was significantly overexpressed in PC tissues and promoted the proliferation, migration, and chemoresistance of PC cells (PMID: 37484321). PRKRA activates EIF2AK2/PKR in the absence of double-stranded RNA (dsRNA), leading to phosphorylation of EIF2S1/EIF2- $\alpha$  and inhibition of translation and induction of apoptosis. PRKRA has been shown to interact with DICER1. DICER1 and PRKRA expression in normal colon was limited to mucosal epithelium and showed similar cytoplasmic expression (PMID: 37484321).

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

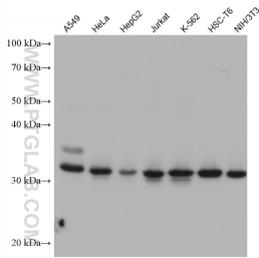
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

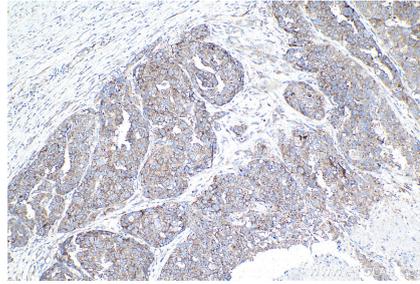
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

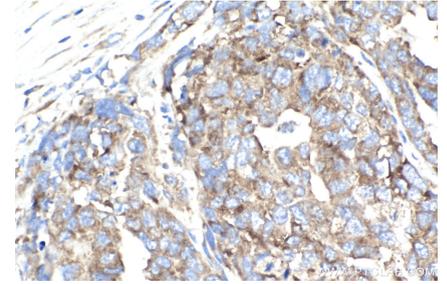
## Selected Validation Data



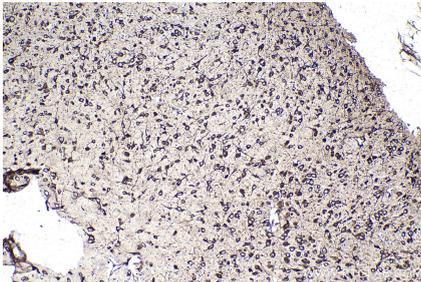
Various lysates were subjected to SDS PAGE followed by western blot with 68518-1-Ig (PRKRA antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



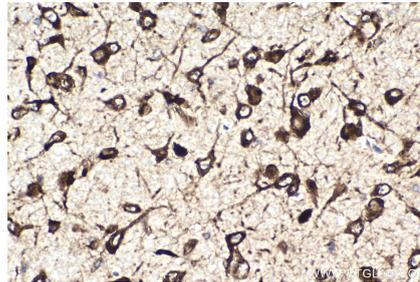
Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 68518-1-Ig (PRKRA antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



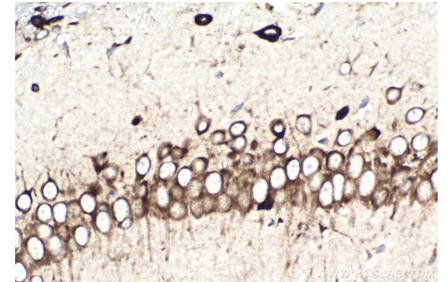
Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 68518-1-Ig (PRKRA antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



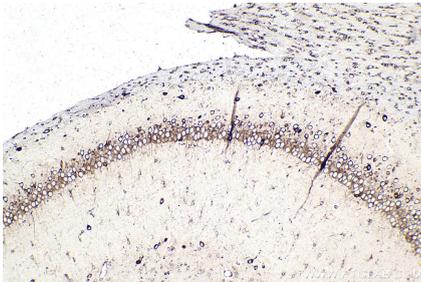
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 68518-1-Ig (PRKRA antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



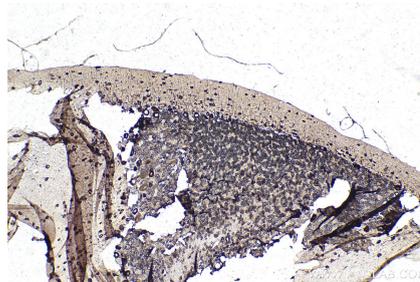
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 68518-1-Ig (PRKRA antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 68518-1-Ig (PRKRA antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 68518-1-Ig (PRKRA antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue slide using 68518-1-Ig (PRKRA antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).