

For Research Use Only

PRKRA Monoclonal antibody

Catalog Number: 68518-1-Ig



Basic Information

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

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : A549 cells, HeLa cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	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- α 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

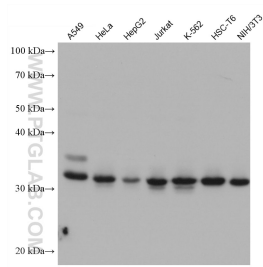
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

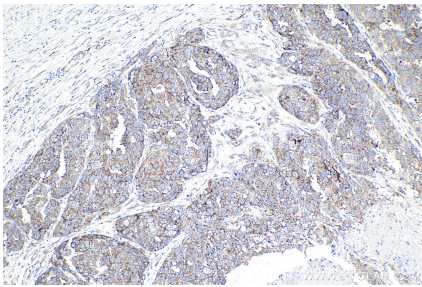
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

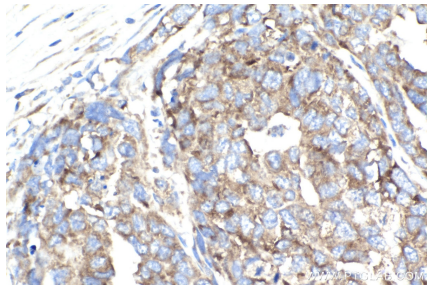
Selected Validation Data



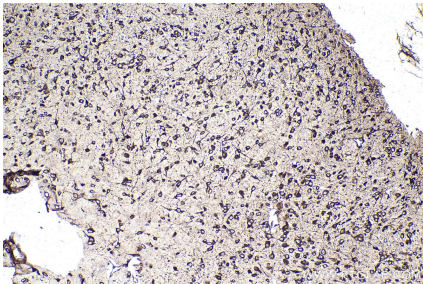
Various lysates were subjected to SDS PAGE followed by western blot with 68518-1-Ig (PRKRA antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



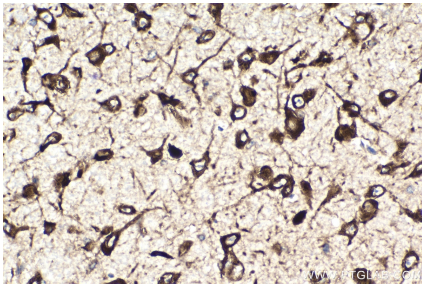
Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 68518-1-Ig (PRKRA antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



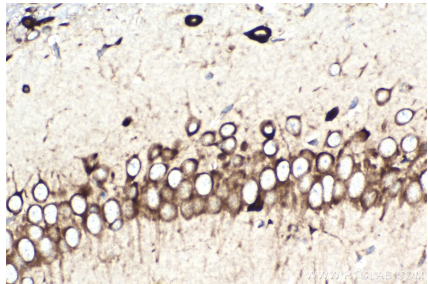
Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 68518-1-Ig (PRKRA antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



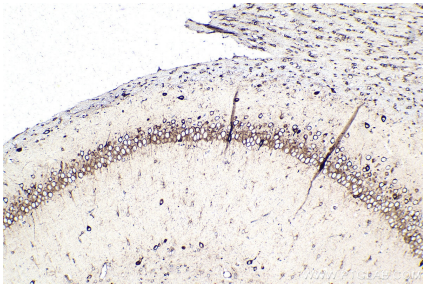
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 68518-1-Ig (PRKRA antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



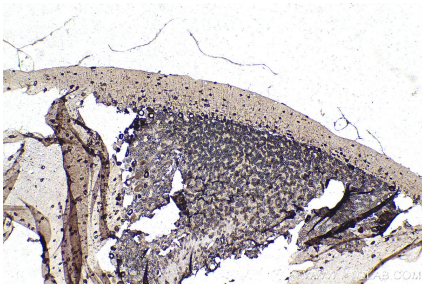
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 68518-1-Ig (PRKRA antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).