

For Research Use Only

PKIA Polyclonal antibody

Catalog Number: 11743-1-AP



Basic Information

Catalog Number: 11743-1-AP	GenBank Accession Number: BC022265	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 650 µg/ml by Nanodrop and 347 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5569	Recommended Dilutions: IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	Full Name: protein kinase (cAMP-dependent, catalytic) inhibitor alpha	
Isotype: IgG	Calculated MW: 76 aa, 8 kDa	
Immunogen Catalog Number: AG2338		

Applications

Tested Applications: IF, IHC, ELISA	Positive Controls: IHC: mouse embryo tissue, mouse brain tissue IF: HeLa cells,
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	

Background Information

cAMP-dependent protein kinase inhibitor alpha (PKIA) is also named as PRKACN1, and belongs to the PKI family. Among them, PKIA, a member of protein kinase A (PKA) inhibitor family, was found to be most significantly and highly expressed in susceptible animals (PMID:24910983). Decreased PKIA signaling would directly impact PKA activation, potentially inducing DRP1 phosphorylation and increasing ER Ca²⁺ stores (PMID:32152556). miR-129-5p activated PKA to regulate the phosphorylation of beta-catenin and cAMP-response element binding protein (CREB) by inhibiting PKIA (PMID:36222334).

Storage

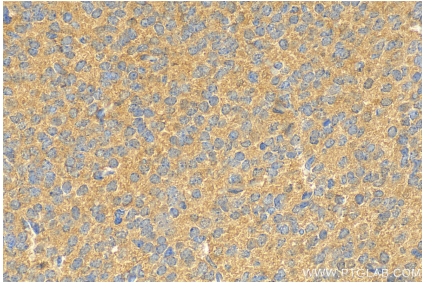
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

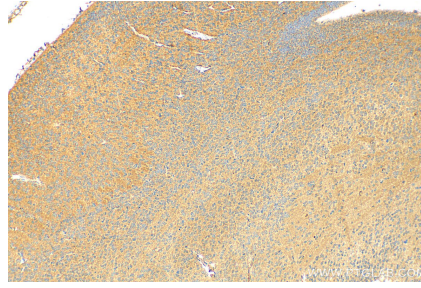
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

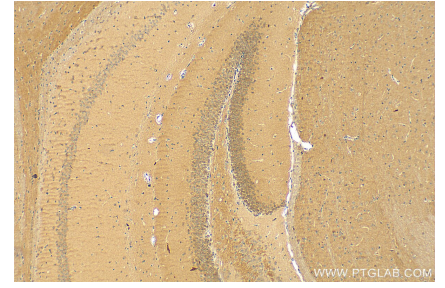
Selected Validation Data



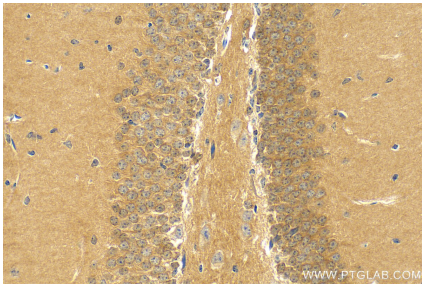
Immunohistochemical analysis of paraffin-embedded mouse embryo tissue slide using 11743-1-AP (PKIA antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



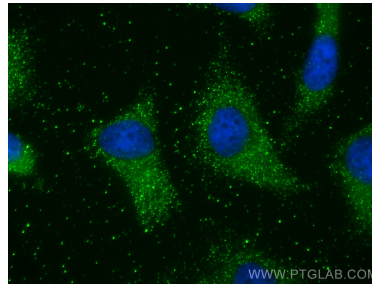
Immunohistochemical analysis of paraffin-embedded mouse embryo tissue slide using 11743-1-AP (PKIA antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 11743-1-AP (PKIA antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 11743-1-AP (PKIA antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using PKIA antibody (11743-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).