

# PKIA Polyclonal antibody

Catalog Number: 11743-1-AP

## Basic Information

<b>Catalog Number:</b> 11743-1-AP	<b>GenBank Accession Number:</b> BC022265	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 650 µg/ml	<b>GeneID (NCBI):</b> 5569	<b>Recommended Dilutions:</b> IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P61925	<b>IF/ICC 1:50-1:500</b>
<b>Isotype:</b> IgG	<b>Full Name:</b> protein kinase (cAMP-dependent, catalytic) inhibitor alpha	
<b>Immunogen Catalog Number:</b> AG2338	<b>Calculated MW:</b> 76 aa, 8 kDa	

## Applications

<b>Tested Applications:</b> IHC, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse, rat	<b>IHC :</b> mouse embryo tissue, mouse brain tissue
<b>Note-IHC:</b> suggested antigen retrieval with <b>TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IF/ICC :</b> HeLa cells,

## 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 Ca<sup>2+</sup> 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**

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

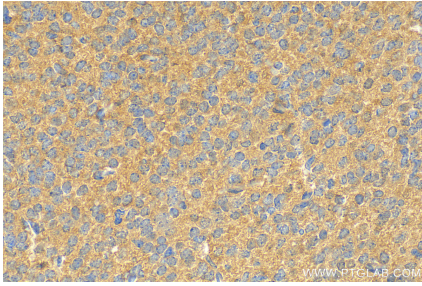
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

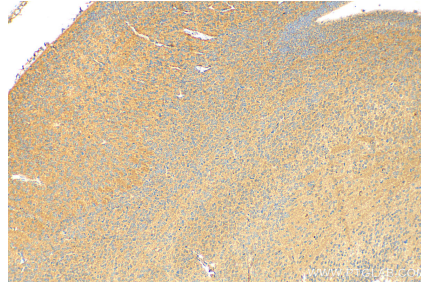
W: [ptgcn.com](http://ptgcn.com)

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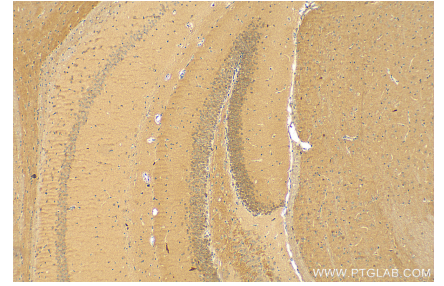
## Selected Validation Data



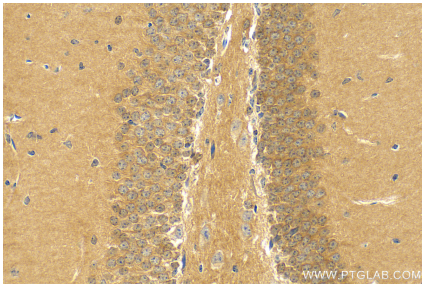
Immunohistochemical analysis of paraffin-embedded mouse embryo tissue slide using 11743-1-AP (PKIA antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



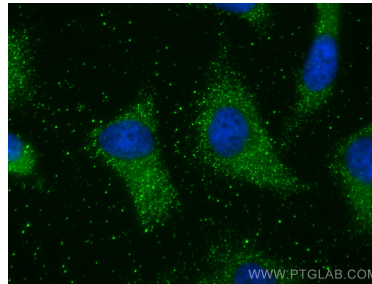
Immunohistochemical analysis of paraffin-embedded mouse embryo tissue slide using 11743-1-AP (PKIA antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).