

For Research Use Only

# EIF2AK4 Polyclonal antibody, PBS Only

Catalog Number: 27944-1-PBS



## Basic Information

**Catalog Number:**

27944-1-PBS

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG27617

**GenBank Accession Number:**

BC009350

**GeneID (NCBI):**

440275

**UNIPROT ID:**

Q9P2K8

**Full Name:**

eukaryotic translation initiation factor 2 alpha kinase 4

**Calculated MW:**

187 kDa

**Observed MW:**

~200 kDa

**Purification Method:**

Antigen affinity purification

## Applications

**Tested Applications:**

WB, IHC, Indirect ELISA

**Species Specificity:**

human

## Background Information

EIF2AK4 (eukaryotic translation initiation factor 2  $\alpha$  kinase 4), formerly known as GCN2, a member of serine/threonine kinases, is comprised of an N-terminal RWD domain (20-137) involved in protein-protein interactions, pseudokinase (276-539) and kinase domains (585-1016) and C-terminal domain (1533-1649) where binding to ribosomes and recognition of uncharged tRNAs occur. It downregulates protein synthesis in response to a variety of cellular stress such as hypoxia, viral infection, and amino acid deprivation (PMID: 38776952, 26300654). Mutant EIF2AK4 could promote proliferation of small pulmonary arteries by crosstalk with mammalian targets of the rapamycin signaling pathway (PMID: 24135949).

## Storage

**Storage:**

Store at -80°C.

**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**

PBS only, pH7.3

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

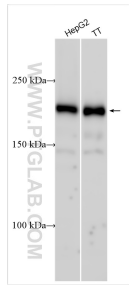
T: 4006900926

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

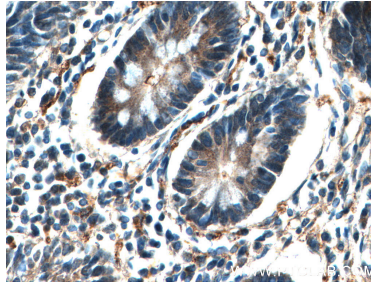
W: [ptgcn.com](http://ptgcn.com)

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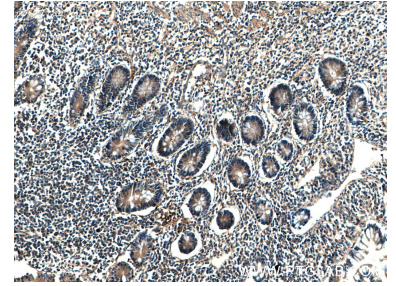
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 27944-1-AP (EIF2AK4 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 27944-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human small intestine tissue slide using 27944-1-AP (EIF2AK4 antibody) at dilution of 1:100 (under 40x lens). This data was developed using the same antibody clone with 27944-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human small intestine tissue slide using 27944-1-AP (EIF2AK4 antibody) at dilution of 1:100 (under 10x lens). This data was developed using the same antibody clone with 27944-1-PBS in a different storage buffer formulation.