

For Research Use Only

# EIF2AK4 Polyclonal antibody, PBS Only

Catalog Number: 27944-1-PBS



## Basic Information

<b>Catalog Number:</b> 27944-1-PBS	<b>GenBank Accession Number:</b> BC009350	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 440275	
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9P2K8	
<b>Isotype:</b> IgG	<b>Full Name:</b> eukaryotic translation initiation factor 2 alpha kinase 4	
<b>Immunogen Catalog Number:</b> AG27617	<b>Calculated MW:</b> 187 kDa	
	<b>Observed MW:</b> ~200 kDa	

## 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.

**Storage Buffer:**  
PBS only, pH7.3

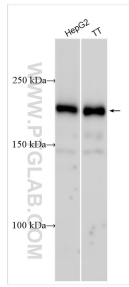
For technical support and original validation data for this product please contact:

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

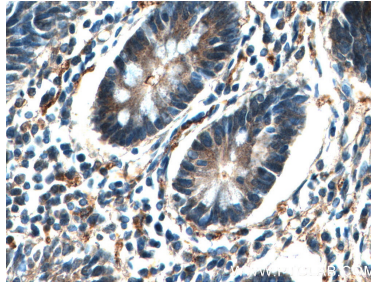
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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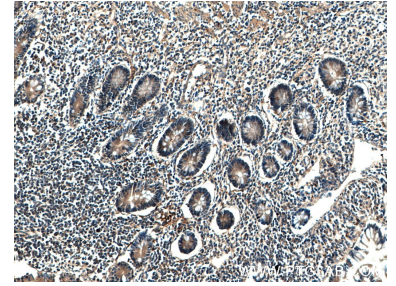
## Selected Validation Data



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.