

For Research Use Only

# EIF2B5 Polyclonal antibody

Catalog Number: 29935-1-AP



## Basic Information

<b>Catalog Number:</b> 29935-1-AP	<b>GenBank Accession Number:</b> NM_003907.2	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 600 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 8893	<b>Recommended Dilutions:</b> WB 1:2000-1:10000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q13144	<b>IHC 1:200-1:800</b>
<b>Isotype:</b> IgG	<b>Full Name:</b> eukaryotic translation initiation factor 2B, subunit 5 epsilon, 82kDa	<b>IF/ICC 1:200-1:800</b>
<b>Immunogen Catalog Number:</b> AG32175	<b>Calculated MW:</b> 80 kDa	
	<b>Observed MW:</b> 65-80 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, ELISA

**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**

**Positive Controls:**

**WB:** A549 cells, HEK-293T cells, HT-29 cells, HeLa cells, Jurkat cells, NIH/3T3 cells, mouse brain tissue, rat brain tissue

**IHC:** human colon cancer tissue,

**IF/ICC:** MCF-7 cells,

## Background Information

EIF2B5 encodes translation initiation factor eIF-2B subunit epsilon protein (PMID 8688466). EIF2B5 mutations compromise the induction of GFAP-expressing astrocytes in VWM (vanishing white matter) leukodystrophy (PMID:15723074, PMID:15776425). The upregulation of EIF2B5 is associated with cancer such as human pulmonary adenocarcinoma cell and breast cancer (PMID:24366584, PMID:24979338). EIF2B5 also has 65kDa truncated protein isoform (PMID:28961236).

## Storage

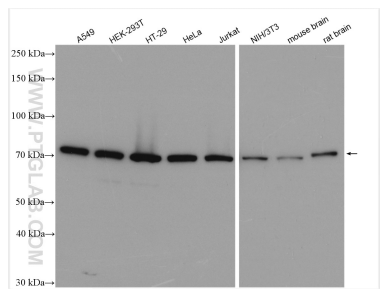
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

**\*\*\* 20ul sizes contain 0.1% BSA**

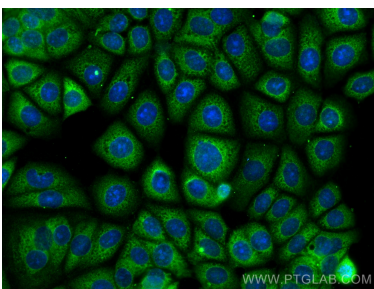
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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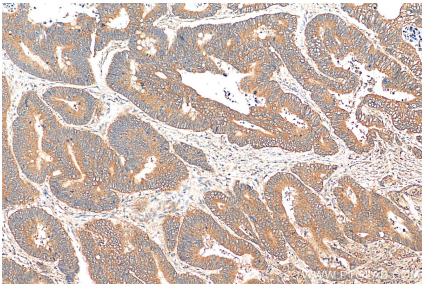
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 29935-1-AP (EIF2B5 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using EIF2B5 antibody (29935-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 29935-1-AP (EIF2B5 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 29935-1-AP (EIF2B5 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).