For Research Use Only

EIF4B Polyclonal antibody

Catalog Number:17917-1-AP Featured Product 15 Publications

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Basic Information

Catalog Number:
17917-1-AP

Size:
150ul , Concentration: 900 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG12325

GenBank Accession Number:
BC073154

GeneID (NCBI):
1975

UNIPROT ID:
P23588

Full Name:
eukaryotic translation initiation factor 4B

Calculated MW:
611 aa, 69 kDa

Observed MW:
80 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:4000
IHC: 1:200-1:800
IF/ICC: 1:200-1:800
FC (Intra): 0.40 ug per 10^6 cells in a 100 ul suspension

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), ELISA

Cited Applications:
WB, IF, CoIP

Species Specificity:
human, mouse, rat

Cited Species:
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 : HeLa cells, K-562 cells

IHC : human stomach tissue,

IF/ICC : MCF-7 cells, sodium arsenite treated HeLa cells

FC (Intra) : HeLa cells,

Background Information

EIF4B is one of the mammalian eukaryotic initiation factors (eIF) that are required for the ATP-dependent binding of mRNA to the 40 S ribosomal subunit, and the other eIF proteins are EIF4A, EIF4F. eIF4B is involved in translation of numerous proliferative or anti-apoptotic mRNAs with highly structured 5'UTR and subsequently affect cell growth and survival. It was reported that false expression and phosphorylation levels of eIF4B are involved in several tumors including breast cancer, cell lymphoblastic leukemia and diffuse large B-cell lymphoma (PMID: 26848623).

Notable Publications

Author	Pubmed ID	Journal	Application
Zonghong Li	30295850	Nucleic Acids Res	WB
Lei Li	25955794	Mol Med Rep	WB
Yu-ying Zhu	42816565	Acta Pharmacol Sin	

Storage

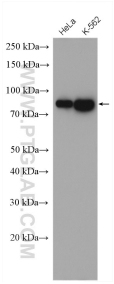
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

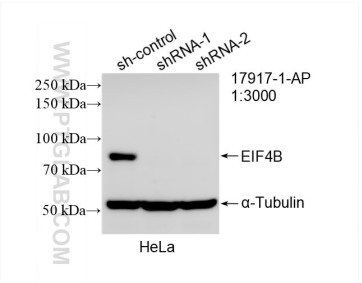
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

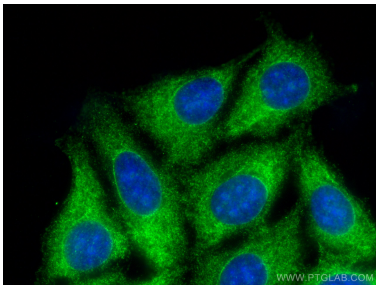
Selected Validation Data



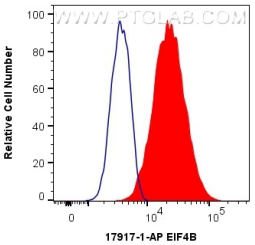
Various lysates were subjected to SDS PAGE followed by western blot with 17917-1-AP (EIF4B antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



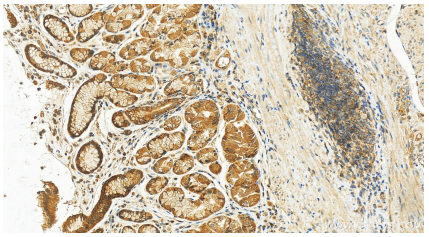
WB result of EIF4B antibody (17917-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-EIF4B transfected HeLa cells.



Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using EIF4B antibody (17917-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human EIF4B (17917-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 17917-1-AP (EIF4B antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).