

For Research Use Only

Phospho-EIF4B (Ser406) Polyclonal antibody

Catalog Number: 28779-1-AP



Basic Information

Catalog Number: 28779-1-AP	GenBank Accession Number: BC073154	Purification Method: Antigen affinity purification
Size: 100ul , Concentration: 300 ug/ml by Nanodrop;	GeneID (NCBI): 1975	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:200-1:800
Source: Rabbit	UNIPROT ID: P23588	
Isotype: IgG	Full Name: eukaryotic translation initiation factor 4B	
	Calculated MW: 611 aa, 69 kDa	
	Observed MW: 70-80 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls: WB : PC-3 cells, λ phosphatase treated PC-3 cells
Species Specificity: human	IF/ICC : sodium arsenite treated 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). EIF4B Ser406 was identified as a novel phosphorylation site regulated by mitogens, and the phosphorylation of this site is dependent on MEK and mTOR activity. This phosphorylation is shown to be essential for the translational activity of eIF4B.

Storage

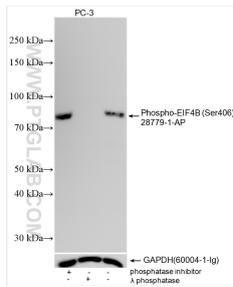
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

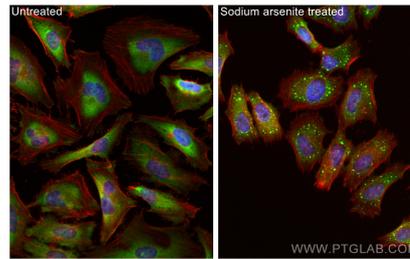
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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Selected Validation Data



Non-treated PC-3 cells, phosphatase inhibitor treated PC-3 cells and λ phosphatase treated PC-3 cells were subjected to SDS PAGE followed by western blot with 28779-1-AP (Phospho-EIF4B (Ser406) antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH (60004-1-Ig) antibody as loading control.



Immunofluorescent analysis of (4% PFA) fixed sodium arsenite treated HeLa cells using Phospho-EIF4B (Ser406) antibody (28779-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).