For Research Use Only

Phospho-EIF4B (Ser406) Polyclonal antibody

Catalog Number:28779-1-AP

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
28779-1-AP

Source:
Rabbit

Isotype:
IgG

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:
70-80 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:5000-1:50000
IF/ICC: 1:200-1:800

Applications

Tested Applications:
WB, IF/ICC, ELISA

Species Specificity:
human

Positive Controls:

WB : PC-3 cells, λ phosphatase treated PC-3 cells

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, pH7.3
Aliquoting is unnecessary for -20°C storage

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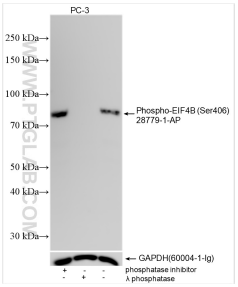
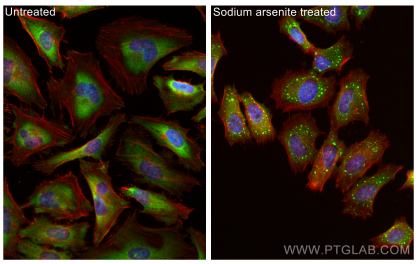
Selected Validation Data



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).