

Rabbit EIF4B Polyclonal Antibody | anti-EIF4B antibody

EIF4B Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327025	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

EIF4B; Polyclonal Antibody; EIF4B Antibody; 2310046H11Rik; AL024095; C85189; EIF 4B; eIF-4B; Eukaryotic initiation factor 4B; Eukaryotic translation initiation factor 4B; IF4B_HUMAN; PRO1843; anti-EIF4B antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	EIF4B antibody detects endogenous levels of total EIF4B
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	572
Applicable Applications for anti-EIF4B antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human EIF4B
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of NIH-3T3 cell lysate, using EIF4B Antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA327025 staining NIH-3T3 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)

AAA327025 at 1/100 staining Human prostate tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-EIF4B antibody	Description: Eukaryotic initiation factor 4B (eIF4B) is thought to assist the eIF4F complex in translation initiation. In plants, eIF4B is known to interact with the poly-(A) binding protein, increasing its poly-(A) binding activity (1). Heat shock and serum starvation cause dephosphorylation of eIF4B at multiple sites with kinetics similar to those of the corresponding inhibition of translation, while phosphorylation of eIF4B following insulin treatment correlates well with an observed increase in translation (2-5). Multiple kinases, including p70 S6 kinase, can phosphorylate eIF4B in vitro, and at least one serum-inducible eIF4B phosphorylation site is sensitive to rapamycin and LY294002 (6). Recently, Ser406 was identified as a novel phosphorylation site regulated by mitogens (7), and the phosphorylation of this site is dependent on MEK and mTOR activity (7). This phosphorylation is shown to be essential for the translational activity of eIF4B (7). Le, H. et al. (1997) J. Biol. Chem. 272, 16247-16255. Duncan, R.F. and Hershey, J.W. (1989) J. Cell Biol. 109, 1467-1481. Duncan, R.F. and Hershey, J.W. (1984) J. Biol. Chem. 259, 11882-11889. Duncan, R. and Hershey, J.W. (1985) J. Biol. Chem. 260, 5493-5497. Manzella, J.M. et al. (1991) J. Biol. Chem. 266, 2383-2389. Gingras, A.C. et al. (2001) Genes Dev. 15, 807-826. van Gorp, A.G. et al. (2009) Oncogene 28, 95-106. Function: Required for the binding of mRNA to ribosomes. Functions in close association with EIF4-F and EIF4-A. Binds near the 5'-terminal cap of mRNA in presence of EIF-4F and ATP. Promotes the ATPase activity and the ATP-dependent RNA unwinding activity of both EIF4-A and EIF4-F. Subunit Structure: Self-associates and interacts with EIF3 p170 subunit. Post-translational Modifications: Phosphorylated at Ser-422 by RPS6KA1 and RPS6KB1; phosphorylation enhances the affinity of EIF4B for the EIF3 complex.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1061214101
NCBI GeneID	1975
NCBI Accession #	NP_001317583.1
NCBI GenBank Nucleotide #	NM_001330654.1
UniProt Accession #	P23588; Q4G0E3; Q53HQ2; Q6GPH5; Q6IB46; Q8WYK5; B4DS13
Molecular Weight	Observed: 69 kDa Predicted: 70 kDa
NCBI Official Full Name	eukaryotic translation initiation factor 4B isoform 3
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 4B
NCBI Official Symbol	EIF4B
NCBI Official Synonym Symbols	EIF-4B; PRO1843
NCBI Protein Information	eukaryotic translation initiation factor 4B
UniProt Protein Name	Eukaryotic translation initiation factor 4B
UniProt Gene Name	EIF4B
UniProt Synonym Gene Names	eIF-4B

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/eif4b-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/327025>