

## Rabbit EIF6 Polyclonal Antibody | anti-EIF6 antibody

Phospho-EIF6 (Ser235) Antibody

| CATALOG # | HOST   | REACTIVITY                                                                                                                                | APPLICATIONS                              |
|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| AAA329934 | Rabbit | Human, Mouse, Rat<br>Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (89%), Dog (100%), Xenopus (89%) | ELISA, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

EIF6; Polyclonal Antibody; Phospho-EIF6 (Ser235) Antibody; b (2)gcn; B (2)GCN homolog; B4 integrin interactor; Binding protein of beta-4 integrin; CAB; eIF-6; EIF3A; Eukaryotic translation initiation factor 3A; Eukaryotic translation initiation factor 6; IF6\_HUMAN; ITGB4BP; OK/SW-cl.27; p27 beta 4 integrin binding protein; p27 (BBP); p27BBP; RP4-614O4.1; anti-EIF6 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                                     |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                                              |
| Reactivity                                     | Human, Mouse, Rat<br>Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (89%), Dog (100%), Xenopus (89%)                                                                                                                                           |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                                                          |
| Isotype                                        | Rabbit IgG                                                                                                                                                                                                                                                                          |
| Specificity                                    | Phospho-EIF6 (Ser235) Antibody detects endogenous levels of EIF6 only when phosphorylated at Ser235.<br>Tissue Specificity: Expressed at very high levels in colon carcinoma with lower levels in normal colon and ileum and lowest levels in kidney and muscle (at protein level). |
| Purity/Purification                            | The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.                                                                                                                      |
| Form/Format                                    | Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                                                            |
| Concentration                                  | 1mg/ml (varies by lot)                                                                                                                                                                                                                                                              |
| Applicable Applications for anti-EIF6 antibody | ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                                                |
| Immunogen                                      | A synthesized peptide derived from human EIF6 around the phosphorylation site of Ser235.                                                                                                                                                                                            |
| Conjugation                                    | Unconjugated                                                                                                                                                                                                                                                                        |
| Fragment                                       | Fab fragment                                                                                                                                                                                                                                                                        |
| Post Translational Modifications               | Phosphorylation at Ser-174 and Ser-175 by CSNK1D/CK1 promotes nuclear export.                                                                                                                                                                                                       |
| Subunit Structure                              | Monomer. Associates with the 60S ribosomal subunit. Interacts with RACK1. Interacts with DICER1, AGO2, TARBP2, MOV10 and RPL7A; they form a large RNA-induced silencing complex (RISC).                                                                                             |
| Similarity                                     | Belongs to the eIF-6 family.                                                                                                                                                                                                                                                        |
| Subcellular Location                           | Cytoplasm. Nucleus>Nucleolus.<br>Note: Shuttles between cytoplasm and nucleus/nucleolus.                                                                                                                                                                                            |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                                                                                                   |

IMAGES



**IHC (Immunohistochemistry)**  
At 1/100 staining Human colorectal cancer 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 primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



**IHC (Immunohistochemistry)**  
At 1/100 staining Human pancreatic cancer and adjacent normal tissues 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 primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



**IHC (Immunohistochemistry)**  
Staining Human ovarian cancer 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 primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



**WB (Western Blot)**  
Western blot analysis of EIF6 (Phospho-Ser235) using HeLa whole cell lysates. -/+ means absence or presence of N peptide (1/4 non-phospho peptide) and P peptide (phospho peptide).

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-EIF6 antibody</b> | Binds to the 60S ribosomal subunit and prevents its association with the 40S ribosomal subunit to form the 80S initiation complex in the cytoplasm. Behaves as a stimulatory translation initiation factor downstream insulin/growth factors. Is also involved in ribosome biogenesis. Associates with pre-60S subunits in the nucleus and is involved in its nuclear export. Cytoplasmic release of TIF6 from 60S subunits and nuclear relocalization is promoted by a RACK1 (RACK1)-dependent protein kinase C activity. In tissues responsive to insulin, controls fatty acid synthesis and glycolysis by exerting translational control of adipogenic transcription factors such as CEBPB, CEBPD and ATF4 that have G/C rich or uORF in their 5'UTR. Required for ROS-dependent megakaryocyte maturation and platelets formation, controls the expression of mitochondrial respiratory chain genes involved in reactive oxygen species (ROS) synthesis (By similarity). Involved in miRNA-mediated gene silencing by the RNA-induced silencing complex (RISC). Required for both miRNA-mediated translational repression and miRNA-mediated cleavage of complementary mRNAs by RISC. Modulates cell cycle progression and global translation of pre-B cells, its activation seems to be rate-limiting in tumorigenesis and tumor growth (By similarity). |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                   |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 3122258                                                                                                                                                           |
| NCBI GeneID                      | 3692                                                                                                                                                              |
| UniProt Accession #              | P56537; Q6IBN8; Q96TD5; B7ZBG9                                                                                                                                    |
| Molecular Weight                 | 245                                                                                                                                                               |
| NCBI Official Full Name          | Eukaryotic translation initiation factor 6                                                                                                                        |
| NCBI Official Synonym Full Names | eukaryotic translation initiation factor 6                                                                                                                        |
| NCBI Official Symbol             | EIF6                                                                                                                                                              |
| NCBI Official Synonym Symbols    | CAB; EIF3A; eIF-6; p27BBP; ITGB4BP; b(2)gcn; p27(BBP)                                                                                                             |
| NCBI Protein Information         | eukaryotic translation initiation factor 6; EIF6; eIF-6; B4 integrin interactor; p27 beta-4 integrin-binding protein; eukaryotic translation initiation factor 3A |
| UniProt Protein Name             | Eukaryotic translation initiation factor 6                                                                                                                        |
| UniProt Gene Name                | EIF6                                                                                                                                                              |
| UniProt Entry Name               | IF6_HUMAN                                                                                                                                                         |

**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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/polyclonal/eif6-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329934>