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# EIF6 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI14664

## Product Information

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|---|---|
| **Application** | WB |
| **Primary Accession** | P56537 |
| **Other Accession** | NM_002212, NP_002203 |
| **Reactivity** | Human, Mouse, Rat, Rabbit, Zebrafish, Dog, Guinea Pig, Horse, Bovine, Sheep, Yeast |
| **Predicted** | Human, Mouse, Chicken, Dog, Guinea Pig, Sheep |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 26599 |

## Additional Information

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|---|---|
| **Gene ID** | 3692 |
| **Alias Symbol** | 2, CAB, EIF3A, ITGB4BP, b, b(2)gcn, gcn, p27BBP, eIF-6, p27(BBP) |
| **Other Names** | Eukaryotic translation initiation factor 6 {ECO:0000255\|HAMAP-Rule:MF_03132}, eIF-6 {ECO:0000255\|HAMAP-Rule:MF_03132}, B(2)GCN homolog, B4 integrin interactor, CAB, p27(BBP), EIF6 {ECO:0000255\|HAMAP-Rule:MF_03132} |
| **Format** | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. |
| **Reconstitution & Storage** | Add 50 ul of distilled water. Final anti-EIF6 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles. |
| **Precautions** | EIF6 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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|---|---|
| **Name** | EIF6 {ECO:0000255\|HAMAP-Rule:MF_03132, ECO:0000312\|HGNC:HGNC:6159} |
| **Function** | Binds to the 60S ribosomal subunit and prevents its association with the 40S ribosomal subunit to form the 80S initiation complex in the cytoplasm (PubMed:10085284, PubMed:14654845, PubMed:21536732, PubMed:32669547). 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 (PubMed:10085284, PubMed:14654845, PubMed:21536732). 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 (PubMed:17507929). 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).

**Cellular Location**

Cytoplasm. Nucleus, nucleolus. Note=Shuttles between cytoplasm and nucleus/nucleolus

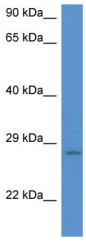
**Tissue Location**

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).

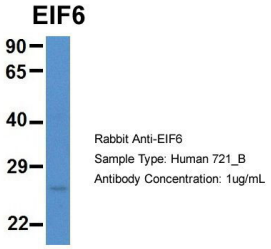
## References


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Biffo S.,et al.J. Biol. Chem. 272:30314-30321(1997).
Donadini A.,et al.Gene 266:35-43(2001).
Mao M.,et al.Proc. Natl. Acad. Sci. U.S.A. 95:8175-8180(1998).
Ota T.,et al.Nat. Genet. 36:40-45(2004).


## Images




WB Suggested Anti-EIF6 Antibody Titration: 1.0 µg/ml
Positive Control: Hela Whole CellEIF6 is supported by BioGPS gene expression data to be expressed in HeLa




Host:Rabbit
Target Name:EIF6
Sample Tissue:Human 721_B
Antibody Dilution: 1.0µg/mlEIF6 is supported by BioGPS gene expression data to be expressed in 721_B


Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.