

EIF6 antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI14664

Product Information

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 Host	Human, Mouse, Chicken, Dog, Guinea Pig, Sheep
Clonality	Rabbit
Calculated MW	Polyclonal 26599

Additional Information

Gene ID	3692
Alias Symbol Other Names	2, CAB, EIF3A, ITGB4BP, b, b(2)gcn, gcn, p27BBP, eIF-6, p27(BBP) 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

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

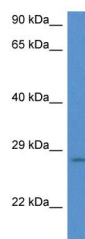
Tissue Location

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).

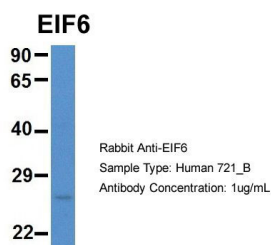
References

Si K.,et al.Proc. Natl. Acad. Sci. U.S.A. 94:14285-14290(1997).
 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 Cell
 EIF6 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/mL
 EIF6 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'.