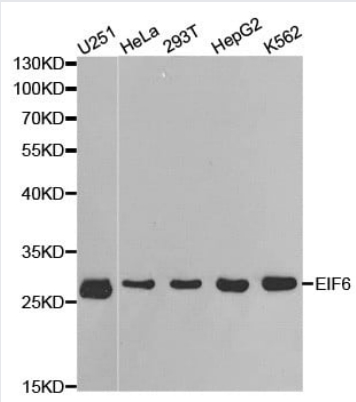
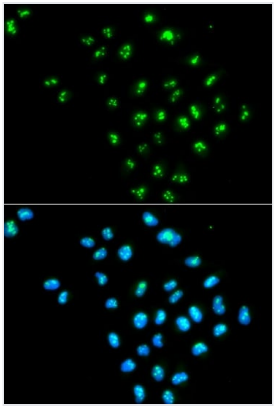
EIF6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EIF6, Polyclonal Antibody
Full Product Name	EIF6 Antibody
Product Gene Name	anti-EIF6 antibody
Product Synonym Names	CAB; EIF3A; eIF-6; p27BBP; ITGB4BP; b(2)gcn; p27(BBP)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Antigen affinity purification
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C (regular) and -80 degree C (long term). Avoid freeze / thaw cycles.
Molecular Weight	23,735 Da
OMIM	602912
Immunogen	Recombinant protein of human EIF6
Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-70268 / sc-70270
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-EIF6 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Related Product Information for anti-EIF6 antibody	Eukaryotic initiation factor 6 (eIF6) is reqiured for the 60S ribosomal subunit assembly in the nucleolus (1). In the cytoplasm, this protein is bound to 60S ribosome subunits and prevents them from joining 40S ribosome subunits to form 80S ribosomes (2). eIF6 is also shown to associate with the RNA-induced silencing complex (RISC) (3). Deletion of eIF6 abolishes the miRNA-mediated gene silencing (3). eIF6 may play its essential role in miRNA-mediated silencing by inhibiting translation initiation or ribosome recycling (3).
Other Notes	Small volumes of anti-EIF6 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for EIF6 purchase	MBS2529135 is an antibody targeting EIF6. Also known as EIF6 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-EIF6 antibody
Western blot analysis of extracts of various cell lines, using EIF6 antibody.



Immunofluorescence (IF) of anti-EIF6 antibody
Immunofluorescence analysis of MCF7 cell using EIF6 antibody. Blue: DAPI for nuclear staining.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EIF6. It may not necessarily be applicable to this product.

NCBI GI #	31563378
NCBI GeneID	3692
NCBI Accession #	NP_852133.1
UniProt Secondary Accession #	Q6IBN8; Q96TD5; B7ZBG9
UniProt Related Accession #	P56537
GenBank Nucleotide #	NM_181468.2
NCBI Official Full Name	eukaryotic translation initiation factor 6 isoform a
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)
UniProt Protein Name	Eukaryotic translation initiation factor 6
UniProt Synonym Protein Names	B(2)GCN homolog; B4 integrin interactor; CAB; p27(BBP)
Protein Family	Translation initiation factor
UniProt Gene Name	EIF6
UniProt Entry Name	IF6_HUMAN
NCBI Protein Information	eukaryotic translation initiation factor 6; B4 integrin interactor; EIF6; eIF-6; eukaryotic translation initiation factor 3A; p27 beta-4 integrin-binding protein
NCBI Summary for EIF6	Hemidesmosomes are structures which link the basal lamina to the intermediate filament cytoskeleton. An important functional component of hemidesmosomes is the integrin beta-4 subunit (ITGB4), a protein containing two fibronectin type III domains. The protein encoded by this gene binds to the fibronectin type III domains of ITGB4 and may help link ITGB4 to the intermediate filament cytoskeleton. The encoded protein, which is insoluble and found both in the nucleus and in the cytoplasm, can function as a translation initiation factor and prevent the association of the 40S and 60S ribosomal subunits. Multiple non-protein coding transcript variants and variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jun 2012]

UniProt Comments for EIF6	EIF6: eukaryotic translation initiation factor 6. Binds to the 60S ribosomal subunit and prevents its association with the 40S ribosomal subunit to form the 80S initiation complex. Protein type: Translation initiation; Nucleolus; Translation Chromosomal Location of Human Ortholog: 20q12 Cellular Component: nucleoplasm; cytoplasm; lamin filament; nucleolus; nucleus Molecular Function: protein binding; translation initiation factor activity; ribosome binding; ribosomal large subunit binding Biological Process: translational initiation; ribosomal large subunit biogenesis and assembly; mature ribosome assembly; ribosome export from nucleus
Research Articles on EIF6	**1.** SBDS protein facilitates the release of eIF6, a factor that prevents ribosome joining.
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