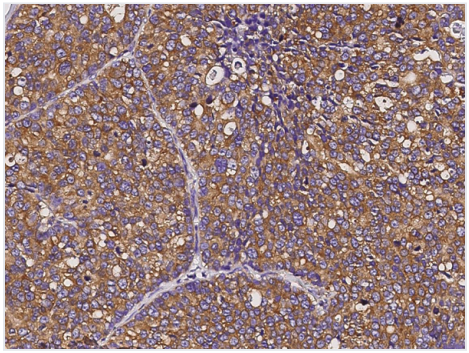
EEF1B2 Antibody – Rabbit Polyclonal

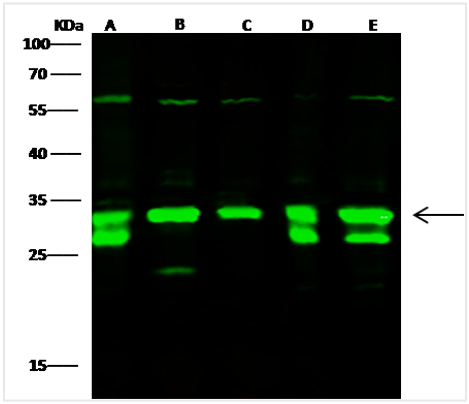
PRODUCT OVERVIEW

Product Name	EEF1B2, Polyclonal Antibody
Full Product Name	Anti-EEF1B2 Antibody, Rabbit Polyclonal
Product Gene Name	anti-EEF1B2 antibody
Product Synonym Names	EF1B/EEF1B2 Antibody, Rabbit PAb, Antigen Affinity Purified; eukaryotic translation elongation factor 1 beta 2; Anti-EEF1B Antibody; Anti-EEF1B1 Antibody; Anti-EF1B Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A & Antigen Affinity
Specificity	Human EF1B/EEF1B2
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	24,764 Da
OMIM	600655
3D Structure	ModBase 3D Structure for P24534
Immunogen	Recombinant Human EF1B/EEF1B2 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human EF1B/EEF1B2 (rh EF1B/EEF1B2). EF1B/EEF1B2 specific IgG was purified by Human EF1B/EEF1B2 affinity chromatography.
Applications Tested/Suitable for anti-EEF1B2 antibody	Western Blot (WB), ELISA (EIA), Immunohistochemistry-Paraffin (IHC-P), Immunoprecipitation (IP)
Application Notes for anti-EEF1B2 antibody	WB: 1:500-1:2000 ELISA: 1:5000-1:10,000 IHC-P: 1:2500-1:10,000 IP: 0.5-2uL/mg of lysate
Related Product Information for anti-EEF1B2 antibody	EF1B, also known as EEF1B2, is a translation elongation factor. It belongs to the EF-1-beta/EF-1-delta family. Elongation factors are a set of proteins that are used in protein synthesis in the cell. In the ribosome, they facilitate translational elongation, from the formation of the first peptide bond to the formation of the last one. EF1B is more complex in eukaryotes than in bacteria, and consists of three subunits: EF1B-alpha, EF1B-gamma and EF1B-beta. EF1B contains 1 GST C-terminal domain. It is involved in the transfer of aminoacylated tRNAs to the ribosome. EF1B is required to regenerate EF1A from its inactive form (EF1A-GDP) to its active form (EF1A-GTP). EF1A is then ready to interact with a new aminoacyl-tRNA to begin the cycle again.
Product References and Citations for anti-EEF1B2 antibody	Pizzuti A. et al., 1994, Biochem Biophys Res Commun. 197 (1): 154-62. Rual. et al., 2005, Nature. 437 (7062): 1173-8. Stelzl. et al., 2005, Cell. 122 (6): 957-68. Sang Lee. et al., 2002, Biochem Biophys Res Commun. 291 (1): 158-64.

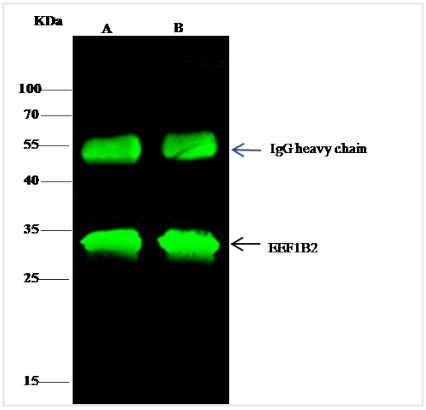
Other Notes	Small volumes of anti-EEF1B2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for EEF1B2 purchase	MBS8107444 is an antibody targeting EEF1B2. Also known as Anti-EEF1B2 Antibody, Rabbit Polyclonal. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-EEF1B2 antibody
Immunochemical staining of human EEF1B2 in human breast carcinoma with rabbit polyclonal antibody (1:10000, formalin-fixed paraffin embedded sections).



Western Blot (WB) of anti-EEF1B2 antibody
Anti-EEF1B2 rabbit polyclonal antibody at 1:500 dilutionLane A: HepG2 Whole Cell LysateLane B: Jurkat Whole Cell LysateLane C: A431 Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.Developed using the Odyssey technique. Performed under reducing conditions.Predicted band size:25 kDaObserved band size:32 kDa(We are unsure as to the identity of these extra bands.)



Immunoprecipitation (IP) of anti-EEF1B2 antibody
EEF1B2 was immunoprecipitated using:Lane A:0.5 mg MCF-7 Whole Cell LysateLane B:0.5 mg K562 Whole Cell Lysate2 uL anti-EEF1B2 rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose.Primary antibody:Anti-EEF1B2 rabbit polyclonal antibody,at 1:200 dilution Secondary antibody:Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the odssey technique.Performed under reducing conditions.Predicted band size: 32 kDaObserved band size: 32 kDa

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EEF1B2. It may not necessarily be applicable to this product.

NCBI GI #	83376130
NCBI GeneID	1933
NCBI Accession #	NP_001032752.1
UniProt Primary Accession #	P24534
UniProt Secondary Accession #	Q6IBH9; A8K795
UniProt Related Accession #	P24534

GenBank Nucleotide #	NM_001037663.1
NCBI Official Full Name	elongation factor 1-beta
NCBI Official Synonym Full Names	eukaryotic translation elongation factor 1 beta 2
NCBI Official Symbol	EEF1B2
NCBI Official Synonym Symbols	EF1B; EEF1B; EEF1B1
UniProt Protein Name	Elongation factor 1-beta
UniProt Gene Name	EEF1B2
UniProt Synonym Gene Names	EEF1B; EF1B; EF-1-beta
UniProt Entry Name	EF1B_HUMAN
NCBI Protein Information	elongation factor 1-beta; EF-1-beta; eukaryotic translation elongation factor 1 beta 1
NCBI Summary for EEF1B2	This gene encodes a translation elongation factor. The protein is a guanine nucleotide exchange factor involved in the transfer of aminoacylated tRNAs to the ribosome. Alternative splicing results in three transcript variants which differ only in the 5' UTR. [provided by RefSeq, Jul 2008]
UniProt Comments for EEF1B2	eEF1B: EF-1-beta and EF-1-delta stimulate the exchange of GDP bound to EF-1-alpha to GTP. Belongs to the EF-1-beta/EF-1-delta family. Protein type: Translation elongation; Translation Chromosomal Location of Human Ortholog: 2q33.3 Cellular Component: eukaryotic translation elongation factor 1 complex; endoplasmic reticulum; cytoplasm; cytosol; nucleus Molecular Function: protein binding; translation elongation factor activity Biological Process: cellular protein metabolic process; translational elongation; translation; gene expression
Research Articles on EEF1B2	**1.** Cathepsin D and eEF1 are promising markers for the detection of cellular senescence induced by a variety of treatments.
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