

Rabbit EIF5A Polyclonal Antibody | anti-EIF5A antibody

EIF5A Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326518	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

EIF5A; Polyclonal Antibody; EIF5A Antibody; eIF 4D; eIF 5A 1; EIF 5A; eIF 5A1; eIF-4D; eIF-5A; eIF-5A-1; eIF-5A1; eIF4D; eif5a; EIF5A1; eIF5A1; Eukaryotic initiation factor 5A; Eukaryotic initiation factor 5A isoform 1; Eukaryotic translation initiation factor 5A 1; Eukaryotic translation initiation factor 5A; Eukaryotic translation initiation factor 5A-1; IF5A1_HUMAN; MGC104255; MGC99547; Rev binding factor; Rev-binding factor; uORF A; uORF; anti-EIF5A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	EIF5A antibody detects endogenous levels of total EIF5A
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	184
Applicable Applications for anti-EIF5A antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human EIF5A
Subcellular Location	Cytoplasm. Nucleus. Endoplasmic Reticulum Membrane. Nucleus > Nuclear Pore Complex. Hypusine modification promotes the nuclear export and cytoplasmic localization and there was a dynamic shift in the localization from predominantly cytoplasmic to primarily nuclear under apoptotic inducing conditions.
Tissue Specificity	Expressed in umbilical vein endothelial cells and several cancer cell lines (at protein level).
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Zebrafish (80%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (80%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA326518 at 1/100 staining Human spleen tissue 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 antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of Jurkat whole cell lysates, using EIF5A Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-EIF5A antibody

Description: mRNA-binding protein involved in translation elongation. Has an important function at the level of Mrna turnover, probably acting downstream of decapping. Involved in actin dynamics and cell cycle progression, mRNA decay and probably in a pathway involved in stress response and maintenance of cell wall integrity. With syntenin SDCBP, functions as a regulator of p53/TP53 and p53/TP53-dependent apoptosis. Regulates also TNF-alpha-mediated apoptosis. Mediates effects of polyamines on neuronal process extension and survival. May play an important role in brain development and function, and in skeletal muscle stem cell differentiation. Also described as a cellular cofactor of human T-cell leukemia virus type I (HTLV-1) Rex protein and of human immunodeficiency virus type 1 (HIV-1) Rev protein, essential for mRNA export of retroviral transcripts.

Subunit Structure: Interacts with DHPS, with SDCBP and DOHH. Interacts with HIV-1 protein Rev. Found in a complex with Ran and XPO4. The hypusine modification increases the interaction with XPO4.

Post-translational Modifications: Acetylated. Deacetylated by SIRT2.eIF-5A seems to be the only eukaryotic protein to have a hypusine residue which is a post-translational modification of a lysine by the addition of a butylamino group (from spermidine).

Similarity: Belongs to the eIF-5A family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	219555707
NCBI GeneID	1984
NCBI Accession #	NP_001137232.1
NCBI GenBank Nucleotide #	NM_001143760.1
UniProt Accession #	P63241; P10159; Q16182; Q7L7L3; Q7Z4L1; Q9D0G2; A8K9A0; D3DTP2
Molecular Weight	Observed: 16 kDa Predicted: 17 kDa
NCBI Official Full Name	eukaryotic translation initiation factor 5A-1 isoform A
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 5A
NCBI Official Symbol	EIF5A
NCBI Official Synonym Symbols	EIF-5A; EIF5A1; eIF5AI
NCBI Protein Information	eukaryotic translation initiation factor 5A-1
UniProt Protein Name	Eukaryotic translation initiation factor 5A-1
UniProt Gene Name	EIF5A
UniProt Synonym Gene Names	eIF-5A-1; eIF-5A1; eIF-5A

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.