

Rabbit anti-Human, Mouse EIF3D Polyclonal Antibody | anti-EIF3D antibody

EIF3D Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324721	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

EIF3D; Polyclonal Antibody; EIF3D Antibody; eIF 3 zeta; eIF-3-zeta; eIF3 p66; eIF3 zeta; eIF3d; EIF3D_HUMAN; eIF3p66; EIF3S7; Eukaryotic translation initiation factor 3 subunit 7; Eukaryotic translation initiation factor 3 subunit 7 zeta 66/67kDa; Eukaryotic translation initiation factor 3 subunit D; MGC126526; MGC17258; OTTHUMP00000197900; OTTHUMP00000197901; Translation initiation factor eIF3 p66 subunit; anti-EIF3D antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	EIF3D antibody detects endogenous levels of total EIF3D
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	548
Applicable Applications for anti-EIF3D antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA324721 staining NIH-3T3 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)

AAA324721 at 1/100 staining Human prostate 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 extracts from 3T3 cells, using EIF3D antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-EIF3D antibody	Function: mRNA cap-binding component of the eukaryotic translation initiation factor 3 (eIF-3) complex, a complex required for several steps in the initiation of protein synthesis of a specialized repertoire of mRNAs (PubMed:27462815). The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNAi and eIF-5 to form the 43S pre-initiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation (PubMed:18599441, PubMed:25849773). The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression (PubMed:25849773). In the eIF-3 complex, EIF3D specifically recognizes and binds the 7-methylguanosine cap of a subset of mRNAs (PubMed:27462815). Subunit Structure: Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is composed of 13 subunits: EIF3A, EIF3B, EIF3C, EIF3D, EIF3E, EIF3F, EIF3G, EIF3H, EIF3I, EIF3J, EIF3K, EIF3L and EIF3M. The eIF-3 complex appears to include 3 stable modules: module A is composed of EIF3A, EIF3B, EIF3G and EIF3I; module B is composed of EIF3F, EIF3H, and EIF3M; and module C is composed of EIF3C, EIF3D, EIF3E, EIF3K and EIF3L. EIF3C of module C binds EIF3B of module A and EIF3H of module B, thereby linking the three modules. EIF3J is a labile subunit that binds to the eIF-3 complex via EIF3B. The eIF-3 complex interacts with RPS6KB1 under conditions of nutrient depletion. Mitogenic stimulation leads to binding and activation of a complex composed of MTOR and RPTOR, leading to phosphorylation and release of RPS6KB1 and binding of EIF4B to eIF-3. Similarity: The RNA gate region regulates mRNA cap recognition to prevent promiscuous mRNA-binding before assembly of EIF3D into the full eukaryotic translation initiation factor 3 (eIF-3) complex. Belongs to the eIF-3 subunit D family.
---	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503523
NCBI GeneID	8664
NCBI Accession #	NP_003744.1
NCBI GenBank Nucleotide #	NM_003753.3
UniProt Accession #	O15371; Q3MJD9; Q5M9Q6; A8MWD3; B2R7D4; B4DTF8; B4DVY1
Molecular Weight	Observed: 64 kD Predicted: 64 kDa
NCBI Official Full Name	eukaryotic translation initiation factor 3 subunit D
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 3 subunit D
NCBI Official Symbol	EIF3D
NCBI Official Synonym Symbols	EIF3S7; eIF3-p66; eIF3-zeta
NCBI Protein Information	eukaryotic translation initiation factor 3 subunit D
UniProt Protein Name	Eukaryotic translation initiation factor 3 subunit D
UniProt Gene Name	EIF3D
UniProt Synonym Gene Names	EIF3S7UniRule annotationManual assertion according to rulesiHAMAP-Rule:MF_03003; eIF3d

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/eif3d-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/324721>