

Rabbit EIF4G2 Polyclonal Antibody | anti-EIF4G2 antibody

EIF4G2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326842	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

EIF4G2; Polyclonal Antibody; EIF4G2 Antibody; DAP-5; Death associated protein 5; Death-associated protein 5; eIF-4-gamma 2; eIF-4G 2; eIF4G 2; Eukaryotic translation initiation factor 4 gamma 2; IF4G2_HUMAN; Nat1; Novel APOBEC-1 target 1; p97; Translation repressor NAT1; anti-EIF4G2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	EIF4G2 antibody detects endogenous levels of total EIF4G2
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	869
Applicable Applications for anti-EIF4G2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide of human EIF4G2
Tissue Specificity	Ubiquitously expressed in all adult tissues examined, with high levels in skeletal muscle and heart. Also expressed in fetal brain, lung, liver and kidney.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA326842 staining A549 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)

AAA326842 at 1/100 staining Human brain cancer 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 HeLa whole cell lysates, using EIF4G2 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-EIF4G2 antibody	Description: Translation initiation is mediated by specific recognition of the cap structure by eukaryotic translation initiation factor 4F (eIF4F), which is a cap binding protein complex that consists of three subunits: eIF4A, eIF4E and eIF4G. The protein encoded by this gene shares similarity with the C-terminal region of eIF4G that contains the binding sites for eIF4A and eIF3; eIF4G, in addition, contains a binding site for eIF4E at the N-terminus. Unlike eIF4G, which supports cap-dependent and independent translation, this gene product functions as a general repressor of translation by forming translationally inactive complexes. In vitro and in vivo studies indicate that translation of this mRNA initiates exclusively at a non-AUG (GUG) codon. Alternatively spliced transcript variants encoding different isoforms of this gene have been described. Function: Appears to play a role in the switch from cap-dependent to IRES-mediated translation during mitosis, apoptosis and viral infection. Cleaved by some caspases and viral proteases. Subunit Structure: Interacts with the serine/threonine protein kinases MKNK1 and MKNK2. Binds EIF4A and EIF3. Interacts with MIF4GD. Post-translational Modifications: Phosphorylation; hyperphosphorylated during mitosis. Similarity: Belongs to the eukaryotic initiation factor 4G family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	289577114
NCBI GeneID	1982
NCBI Accession #	NP_001036024.3
NCBI GenBank Nucleotide #	NM_001042559.2
UniProt Accession #	P78344; O60877; P78404; Q0VH00; Q0VH01; Q2NKW9; Q49A79; Q53EU1; Q58EZ2; Q8NI71; Q96C16
Molecular Weight	Observed: 102 kDa Predicted: 103 kDa
NCBI Official Full Name	eukaryotic translation initiation factor 4 gamma 2 isoform 2
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 4 gamma 2
NCBI Official Symbol	EIF4G2
NCBI Official Synonym Symbols	P97; AAG1; DAP5; NAT1
NCBI Protein Information	eukaryotic translation initiation factor 4 gamma 2
UniProt Protein Name	Eukaryotic translation initiation factor 4 gamma 2
UniProt Gene Name	EIF4G2
UniProt Synonym Gene Names	eIF-4-gamma 2; eIF-4G 2; eIF4G 2; DAP-5

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.