

Rabbit EIF2S2 Polyclonal Antibody | anti-EIF2S2 antibody

Phospho-EIF2S2 (Ser2) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31456	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (83%), Rabbit (100%), Dog (83%), Xenopus (100%)	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

EIF2S2; Polyclonal Antibody; Phospho-EIF2S2 (Ser2) Antibody; DKFZp686L18198; eIF 2 beta; eIF-2-beta; EIF2; EIF2B; EIF2beta; Eukaryotic initiation factor 2 beta; eukaryotic initiation factor 2-beta; Eukaryotic translation initiation factor 2 beta; Eukaryotic translation initiation factor 2 subunit 2; Eukaryotic translation initiation factor 2 subunit 2 beta 38kDa; Eukaryotic translation initiation factor 2 subunit 2 beta; Eukaryotic translation initiation factor 2 subunit beta; eukaryotic translation initiation factor 2; subunit 2 beta; 38kDa; IF2B_HUMAN; MGC8508; PPP1R67; protein phosphatase 1; regulatory subunit 67; anti-EIF2S2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (83%), Rabbit (100%), Dog (83%), Xenopus (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-EIF2S2 (Ser2) Antibody detects endogenous levels of EIF2S2 only when phosphorylated at Ser2.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-EIF2S2 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA (Peptide ELISA)
Application Notes	WB: 1:1000-3000 IHC: 1:50-1:200 Peptide ELISA: 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human EIF2S2 around the phosphorylation site of Ser2.
Conjugation	Unconjugated
Fragment	Fab fragment
Subunit Structure	Heterotrimer composed of an alpha, a beta and a gamma chain. Component of an EIF2 complex at least composed of CELF1/CUGBP1, CALR, CALR3, EIF2S1, EIF2S2, HSP90B1 and HSPA5 (By similarity).
Similarity	Belongs to the eIF-2-beta/eIF-5 family.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
At 1/100 staining Human esophageal cancer and adjacent normal tissues 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 primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



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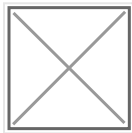
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IHC (Immunohistochemistry)
At 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Mouse brain 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 primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
Staining Rat brain 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 primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-EIF2S2 antibody	eIF-2 functions in the early steps of protein synthesis by forming a ternary complex with GTP and initiator tRNA. This complex binds to a 40S ribosomal subunit, followed by mRNA binding to form a 43S preinitiation complex. Junction of the 60S ribosomal subunit to form the 80S initiation complex is preceded by hydrolysis of the GTP bound to eIF-2 and release of an eIF-2-GDP binary complex. In order for eIF-2 to recycle and catalyze another round of initiation, the GDP bound to eIF-2 must exchange with GTP by way of a reaction catalyzed by eIF-2B.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	29826335
NCBI GeneID	8894
NCBI Accession #	NP_003899.2
NCBI GenBank Nucleotide #	NM_003908.3
UniProt Accession #	P20042; Q9BVU0; Q9UJE4
Molecular Weight	38,388 Da
NCBI Official Full Name	eukaryotic translation initiation factor 2 subunit 2
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa
NCBI Official Symbol	EIF2S2
NCBI Official Synonym Symbols	EIF2; EIF2B; PPP1R67; EIF2beta; eIF-2-beta
NCBI Protein Information	eukaryotic translation initiation factor 2 subunit 2; protein phosphatase 1, regulatory subunit 67; eukaryotic translation initiation factor 2 subunit beta

UniProt Protein Name	Eukaryotic translation initiation factor 2 subunit 2
UniProt Gene Name	EIF2S2
UniProt Synonym Gene Names	EIF2B; eIF-2-beta
UniProt Entry Name	IF2B_HUMAN

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/eif2s2-antibody-western-blot-immunohistochemistry-peptide-elisa-elisa/31456>