

Rabbit eIF2B epsilon Polyclonal Antibody | anti-eIF2Bepsilon antibody

Phospho-eIF2B epsilon (Ser540) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31414	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (80%), Bovine (80%), Horse (80%), Rabbit (80%), Dog (80%), Chicken (80%)	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

eIF2B epsilon; Polyclonal Antibody; Phospho-eIF2B epsilon (Ser540) Antibody; CACH; CLE; EI2BE_HUMAN; EIF 2B; eIF 2B GDP GTP exchange factor; eIF 2B GDP GTP exchange factor subunit epsilon; eIF-2B GDP-GTP exchange factor subunit epsilon; EIF2B; EIF2B5; EIF2BE; EIF2Bepsilon; Eukaryotic Translation Initiation Factor 2 Beta Epsilon; Eukaryotic translation initiation factor 2B subunit 5 epsilon 82kDa; Eukaryotic translation initiation factor 2B subunit 5 epsilon; LVWM; Translation initiation factor eIF 2B subunit epsilon; Translation initiation factor eIF-2B subunit epsilon; anti-eIF2Bepsilon antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (80%), Bovine (80%), Horse (80%), Rabbit (80%), Dog (80%), Chicken (80%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-eIF2B epsilon (Ser540) Antibody detects endogenous levels of eIF2B epsilon only when phosphorylated at Ser540.
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-eIF2Bepsilon 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 eIF2B-epsilon around the phosphorylation site of Ser540.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated at Ser-544 by DYRK2; this is required for subsequent phosphorylation by GSK3B (By similarity). Phosphorylated on serine and threonine residues by GSK3B; phosphorylation inhibits its function. Polyubiquitinated, probably by NEDD4.
Subunit Structure	Complex of five different subunits; alpha, beta, gamma, delta and epsilon. Interacts with RGS2.
Similarity	Belongs to the eIF-2B gamma/epsilon subunits family.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
At 1/200 staining Mouse kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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 antibody.



IHC (Immunohistochemistry)
At 1/200 staining Rat kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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 antibody.



IHC (Immunohistochemistry)
At 1/200 staining Human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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 antibody.



WB (Western Blot)
Western blot analysis of eIF2B-Îµ (Phospho-Ser540) using Na3VO4 treated K562 whole cell lysates. -/+ means absence or presence of N peptide(1/4 non-phospho peptide) and P peptide(phospho peptide).



WB (Western Blot)
Western blot analysis of extracts from 293, using eIF2B-Îµ (Phospho-Ser540) Antibody.



WB (Western Blot)
Western blot analysis of extracts from various samples, using Phospho-eIF2B epsilon (Ser540) Antibody. Lane 1: Hela cells (serum starvation treatment), blocked with antigen-specific peptides, Lane 2: Hela cells (serum starvation treatment), Lane 3: Rat brain.

ADDITIONAL INFORMATION

Related Product Information for anti-eIF2Bepsilon antibody	Catalyzes the exchange of eukaryotic initiation factor 2-bound GDP for GTP.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	83267879
NCBI GeneID	8893
NCBI Accession #	NP_003898
NCBI GenBank Nucleotide #	NM_003907
UniProt Accession #	Q13144; Q541Z1; Q96D04
Molecular Weight	80,380 Da
NCBI Official Full Name	translation initiation factor eIF-2B subunit epsilon
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 2B, subunit 5 epsilon, 82kDa
NCBI Official Symbol	EIF2B5
NCBI Official Synonym Symbols	CLE; CACH; LVWM; EIF-2B; EIF2Bepsilon
NCBI Protein Information	translation initiation factor eIF-2B subunit epsilon; eIF-2B GDP-GTP exchange factor subunit epsilon
UniProt Protein Name	Translation initiation factor eIF-2B subunit epsilon
UniProt Gene Name	EIF2B5
UniProt Synonym Gene Names	EIF2BE

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/eif2b-epsilon-antibody-western-blot-immunohistochemistry-peptide-elisa-elisa/31414>