

Rabbit EIF4ENIF1 Polyclonal Antibody | anti-EIF4ENIF1 antibody

Anti-EIF4ENIF1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127305	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

EIF4ENIF1; Polyclonal Antibody; Anti-EIF4ENIF1 Antibody Picoband; Serine protease HTRA3; spermine oxidase; Spermine oxidase; Polyamine oxidase 1; PAO-1; PAOh1; Smox; Smo; anti-EIF4ENIF1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Widely expressed. Isoform 1 and isoform 2 are expressed at higher level in brain and skeletal muscle. Isoform 7 is found in brain and spleen, isoform 10 isWidely expressed but found at lower level in heart, kidney, liver and lung.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-EIF4ENIF1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human EIF4ENIF1 recombinant protein (Position: D13-Q985).
Subcellular Localization	Cytoplasm, Nucleus, Cytoplasm
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Flavoenzyme which catalyzes the oxidation of spermine to spermidine. Can also use N1-acetylspermine and spermidine as substrates, with different affinity depending on the isoform (isozyme) and on the experimental conditions. Plays an important role in the regulation of polyamine intracellular concentration and has the potential to act as a determinant of cellular sensitivity to the antitumor polyamine analogs. May contribute to beta-alanine production via aldehyde dehydrogenase conversion of 3-amino-propanal.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HL-60 cells using anti-EIF4ENIF1 antibody (AAA127305). Overlay histogram showing HL-60 cells stained with AAA127305 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-EIF4ENIF1 Antibody (AAA127305, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of EIF4ENIF1 using anti-EIF4ENIF1 antibody (AAA127305). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human 293T whole cell lysates, Lane 3: human MCF-7 whole cell lysates, Lane 4: human HepG2 whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: rat NRK whole cell lysates, Lane 7: mouse brain tissue lysates, Lane 8: mouse NIH/3T3 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-EIF4ENIF1 antigen affinity purified polyclonal antibody (#AAA127305) at 0.25ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for EIF4ENIF1 at approximately 140 kDa. The expected band size for EIF4ENIF1 is at 108,140 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-EIF4ENIF1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-EIF4ENIF1 antibody	Primary Antibodies; Chemokines; Immunology; Innate Immunity
References	1. Dostie, J., Ferraiuolo, M., Pause, A., Adam, S. A., Sonenberg, N. A novel shuttling protein, 4E-T, mediates the nuclear import of the mRNA 5-prime cap-binding protein, eIF4E. EMBO J. 19: 3142-3156, 2000.

NCBI AND UNIPROT INFORMATION

NCBI GI #	33877833
NCBI GeneID	56478
UniProt Accession #	Q9NRA8; Q8NCF2; Q9H708; B1AKL2; B1AKL3; B2RBF1
Molecular Weight	108,201 Da
NCBI Official Full Name	EIF4ENIF1 protein, partial
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 4E nuclear import factor 1
NCBI Official Symbol	EIF4ENIF1
NCBI Official Synonym Symbols	4E-T; Clast4
NCBI Protein Information	eukaryotic translation initiation factor 4E transporter; 2610509L04Rik; eIF4E transporter; eIF4E-transporter
UniProt Protein Name	Eukaryotic translation initiation factor 4E transporter
UniProt Gene Name	EIF4ENIF1
UniProt Synonym Gene Names	4E-T
UniProt Entry Name	4ET_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.