

EIF4ENIF1 / 4E-T Antibody (C-Terminus)
Goat Polyclonal Antibody
Catalog # ALS12201**Specification**

EIF4ENIF1 / 4E-T Antibody (C-Terminus) - Product Information

Application	WB, IHC-P, E
Primary Accession	Q9NRA8
Reactivity	Human, Rabbit, Pig, Horse, Xenopus, Dog
Host	Goat
Clonality	Polyclonal
Calculated MW	108kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A E~~N/A

EIF4ENIF1 / 4E-T Antibody (C-Terminus) - Additional Information**Gene ID** 56478**Other Names**

Eukaryotic translation initiation factor 4E transporter, 4E-T, eIF4E transporter, Eukaryotic translation initiation factor 4E nuclear import factor 1, EIF4ENIF1

Target/Specificity

Human EIF4ENIF1. This antibody is expected to recognise isoform 1 (NP_062817.2) and isoform b (NP_001157974.1). Reported variants represent identical protein (NP_062817.2; NP_001157973.1).

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

EIF4ENIF1 / 4E-T Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

EIF4ENIF1 / 4E-T Antibody (C-Terminus) - Protein Information**Name** EIF4ENIF1 ([HGNC:16687](#))**Function**

EIF4E-binding protein that regulates translation and stability of mRNAs in processing bodies (P-bodies) (PubMed:16157702, PubMed:24335285, PubMed:27342281, PubMed:32354837). Plays a key role in P-bodies to coordinate the storage of translationally inactive mRNAs in the cytoplasm and prevent their degradation (PubMed:24335285, PubMed:24335285, PubMed:24335285).

href="http://www.uniprot.org/citations/32354837" target="_blank">32354837). Acts as a binding platform for multiple RNA-binding proteins: promotes deadenylation of mRNAs via its interaction with the CCR4-NOT complex, and blocks decapping via interaction with eIF4E (EIF4E and EIF4E2), thereby protecting deadenylated and repressed mRNAs from degradation (PubMed:27342281, PubMed:32354837). Component of a multiprotein complex that sequesters and represses translation of proneurogenic factors during neurogenesis (By similarity). Promotes miRNA-mediated translational repression (PubMed:24335285, PubMed:27342281, PubMed:28487484). Required for the formation of P- bodies (PubMed:16157702, PubMed:22966201, PubMed:27342281, PubMed:32354837). Involved in mRNA translational repression mediated by the miRNA effector TNRC6B by protecting TNRC6B-targeted mRNAs from decapping and subsequent decay (PubMed:32354837). Also acts as a nucleoplasmic shuttling protein, which mediates the nuclear import of EIF4E and DDX6 by a piggy-back mechanism (PubMed:10856257, PubMed:28216671).

Cellular Location

Cytoplasm, P-body. Cytoplasm. Nucleus. Nucleus, PML body. Nucleus speckle. Note=Predominantly cytoplasmic (PubMed:10856257). Mainly localizes to processing bodies (P-bodies) (PubMed:16157702). Shuttles between the nucleus and the cytoplasm in a CRM1-dependent manner (PubMed:10856257). Localization to nuclear foci and speckles requires active transcription (PubMed:22090346)

Tissue Location

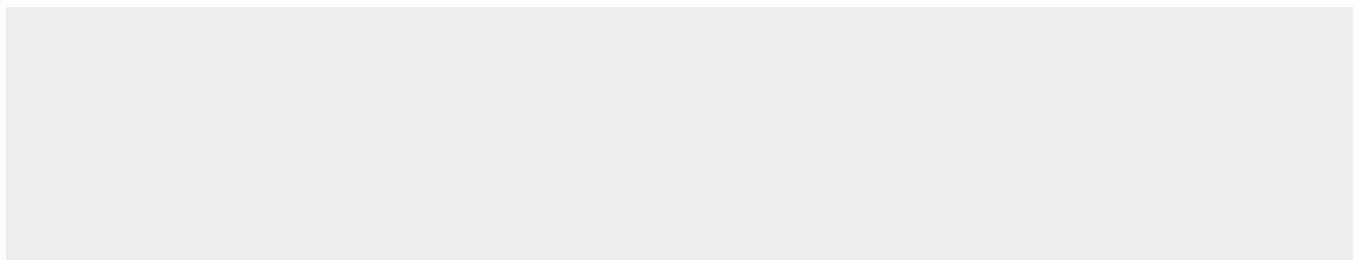
Widely expressed..

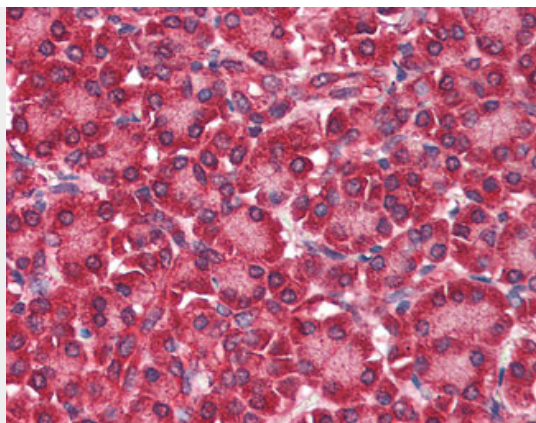
EIF4ENIF1 / 4E-T Antibody (C-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

EIF4ENIF1 / 4E-T Antibody (C-Terminus) - Images





Anti-EIF4ENIF1 antibody IHC of human pancreas.

EIF4ENIF1 / 4E-T Antibody (C-Terminus) - Background

Nucleoplasmic shuttling protein. Mediates the nuclear import of EIF4E by a piggy-back mechanism.

EIF4ENIF1 / 4E-T Antibody (C-Terminus) - References

Dostie J.,et al.EMBO J. 19:3142-3156(2000).
Collins J.E.,et al.Genome Biol. 5:R84.1-R84.11(2004).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Dunham I.,et al.Nature 402:489-495(1999).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.