

EIF4ENIF1 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14376A**Specification**

EIF4ENIF1 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O9NRA8
Other Accession	NP_062817.2 , NP_001157974.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	108201
Antigen Region	80-108

EIF4ENIF1 Antibody (N-term) - 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

This EIF4ENIF1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 80-108 amino acids from the N-terminal region of human EIF4ENIF1.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

EIF4ENIF1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

EIF4ENIF1 Antibody (N-term) - 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:[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

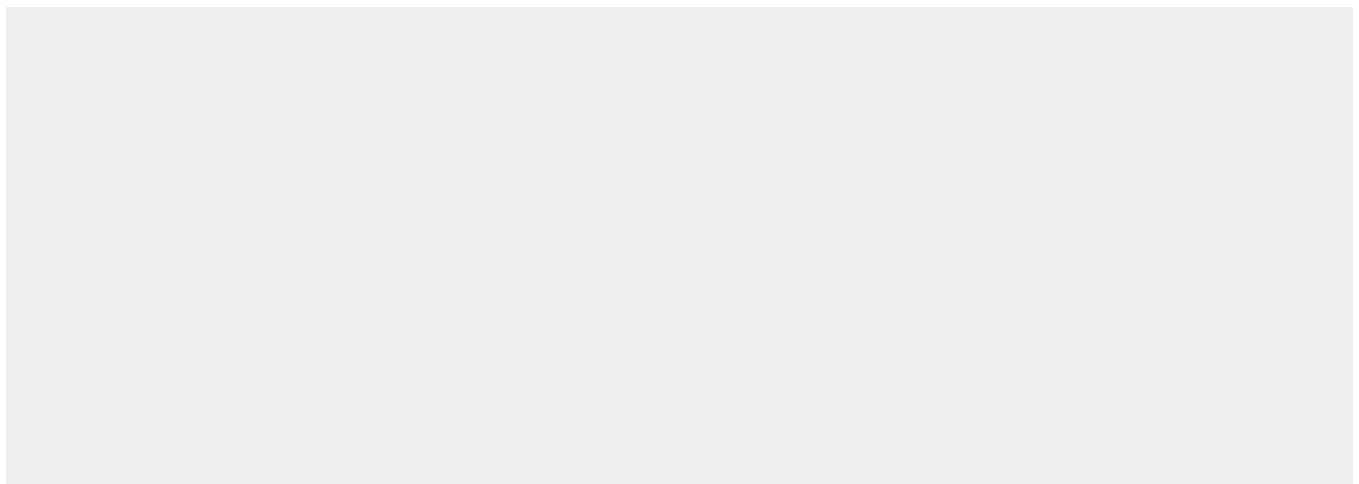
Widely expressed..

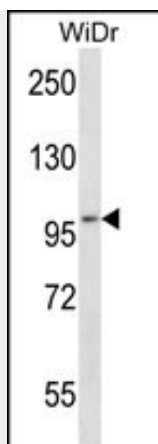
EIF4ENIF1 Antibody (N-term) - Protocols

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 Antibody (N-term) - Images





EIF4ENIF1 Antibody (N-term) (Cat. #AP14376a) western blot analysis in WiDr cell line lysates (35ug/lane). This demonstrates the EIF4ENIF1 antibody detected the EIF4ENIF1 protein (arrow).

EIF4ENIF1 Antibody (N-term) - Background

The protein encoded by this gene is a nucleocytoplasmic shuttle protein for the translation initiation factor eIF4E. This shuttle protein interacts with the importin alpha-beta complex to mediate nuclear import of eIF4E. It is predominantly cytoplasmic; its own nuclear import is regulated by a nuclear localization signal and nuclear export signals. Multiple transcript variants encoding different isoforms have been found for this gene.

EIF4ENIF1 Antibody (N-term) - References

Suzuki, Y., et al. J. Biol. Chem. 284(51):35597-35604(2009)
Venkatesan, K., et al. Nat. Methods 6(1):83-90(2009)
Lee, H.C., et al. Biochem. Biophys. Res. Commun. 369(4):1160-1165(2008)
Denoeud, F., et al. Genome Res. 17(6):746-759(2007)
Lim, J., et al. Cell 125(4):801-814(2006)