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EIF5AL1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11986b

Specification

EIF5AL1 Antibody (C-term) - Product Information

Application	**IF, WB, IHC-P,E**
Primary Accession	Q6IS14
Other Accession	NP_001093162.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**16773**
Antigen Region	**94-122**

EIF5AL1 Antibody (C-term) - Additional Information

Gene ID 143244

Other Names
Eukaryotic translation initiation factor 5A-1-like, eIF-5A-1-like, eIF-5A1-like, Eukaryotic initiation factor 5A isoform 1-like, EIF5AL1

Target/Specificity
This EIF5AL1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 94-122 amino acids from the C-terminal region of human EIF5AL1.

Dilution
IF~~1:10~50
WB~~1:1000
IHC-P~~1:10~50

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
EIF5AL1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

EIF5AL1 Antibody (C-term) - Protein Information

Name EIF5AL1

Function Translation factor that promotes translation elongation and termination, particularly upon ribosome stalling at specific amino acid sequence contexts (By similarity). Binds between the exit (E) and peptidyl (P) site of the ribosome and promotes rescue of stalled ribosome: specifically required for efficient translation of polyproline-containing peptides as well as other motifs that stall the ribosome. Acts as a ribosome quality control (RQC) cofactor by joining the RQC complex to facilitate peptidyl transfer during CAT tailing step (By similarity). Also involved in actin dynamics and cell cycle progression, mRNA decay and probably in a pathway involved in stress response and maintenance of cell wall integrity (By similarity).

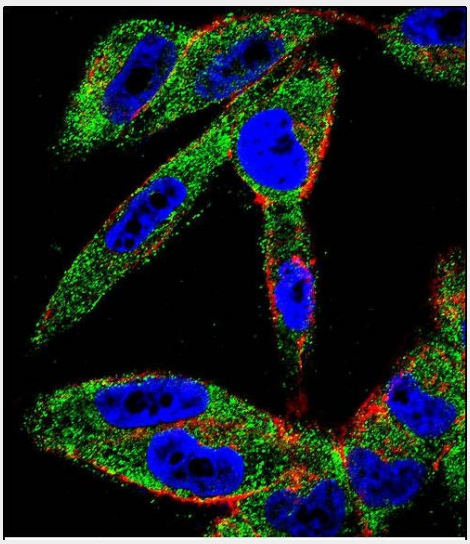
Cellular Location
Cytoplasm {ECO:0000250|UniProtKB:P63241}. Nucleus {ECO:0000250|UniProtKB:P63241}. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:P63241}; Peripheral membrane protein {ECO:0000250|UniProtKB:P63241}; Cytoplasmic side {ECO:0000250|UniProtKB:P63241}. Note=Hypusine modification promotes the nuclear export and cytoplasmic localization and there was a dynamic shift in the localization from predominantly cytoplasmic to primarily nuclear under apoptotic inducing conditions {ECO:0000250|UniProtKB:P63241}

EIF5AL1 Antibody (C-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 Cytomety
- Cell Culture

EIF5AL1 Antibody (C-term) - Images



Confocal immunofluorescent analysis of EIF5AL1 Antibody (C-term)(Cat#AP11986b) with A2058 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).DAPI was used to stain the cell nuclear (blue).

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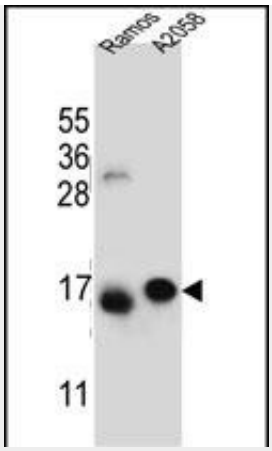
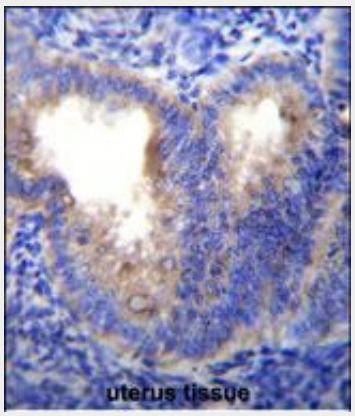


EIF5AL1 Antibody (C-term) (Cat. #AP11986b) western blot analysis in Ramos,A2058 cell line lysates (35ug/lane).This demonstrates the EIF5AL1 antibody detected the EIF5AL1 protein (arrow).



EIF5AL1 Antibody (C-term) (Cat. #AP11986b)immunohistochemistry analysis in formalin fixed and paraffin embedded human uterus tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of EIF5AL1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

EIF5AL1 Antibody (C-term) - Background

EIF5AL1is a mRNA-binding protein involved in translation elongation. Has an important function at the level of mRNA turnover, probably acting downstream of decapping. Involved in actin dynamics and cell cycle progression, mRNA decay and probably in a pathway involved in stress response and maintenance of cell wall integrity. Functions as a regulator of apoptosis. Mediates effects of polyamines on neuronal process extension and survival. May play an important role in brain development and function, and in skeletal muscle stem cell differentiation (By similarity).

EIF5AL1 Antibody (C-term) - References

Kim, S.C., et al. Mol. Cell 23(4):607-618(2006)
Clement, P.M., et al. FEBS J. 273(6):1102-1114(2006)
Facchiano, A.M., et al. Protein Eng. 14(11):881-890(2001)
Lipowsky, G., et al. EMBO J. 19(16):4362-4371(2000)
Koettnitz, K., et al. Gene 159(2):283-284(1995)