10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

EIF5AL1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11986b

Product Information

Application	IHC-P, WB, IF, E
Primary Accession	Q6IS14
Other Accession	NP_001093162.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB29799
Calculated MW	16773
Antigen Region	94-122

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	IHC-P~~1:100~500 WB~~1:1000 IF~~1:10~50 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	EIF5AL1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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}

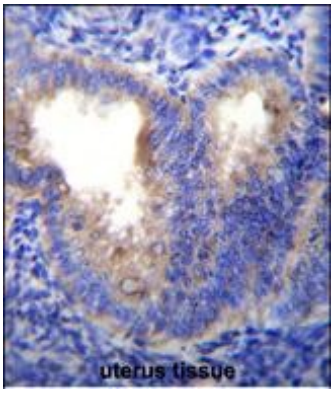
Background

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).

References

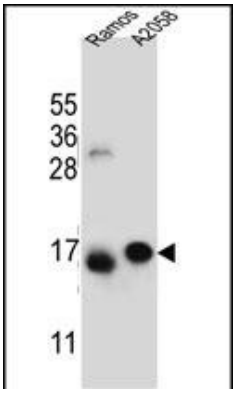
Kim, S.C., et al. Mol. Cell 23(4):607-618(2006)
Clement, P.M., et al. FEBS J. 273(6):1102-1114(2006)
Facchiano, A.M., et al. Protein Eng. 14(11):881-890(2001)
Lipowsky, G., et al. EMBO J. 19(16):4362-4371(2000)
Koettnitz, K., et al. Gene 159(2):283-284(1995)

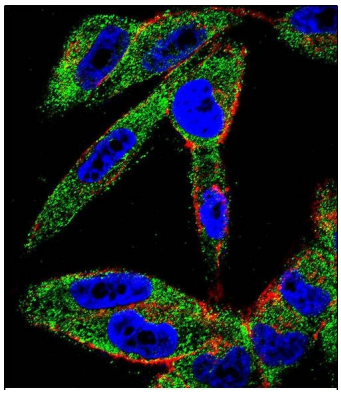
Images



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





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).