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EIF5A2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14052b

Specification

EIF5A2 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q9GZV4
Other Accession	Q8BGY2, NP_065123.1
Reactivity	**Human**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**16793**
Antigen Region	**93-122**

EIF5A2 Antibody (C-term) - Additional Information

Gene ID 56648

Other Names
Eukaryotic translation initiation factor 5A-2, eIF-5A-2, eIF-5A2, Eukaryotic initiation factor 5A isoform 2, EIF5A2

Target/Specificity
This EIF5A2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 93-122 amino acids from the C-terminal region of human EIF5A2.

Dilution
WB~~1:1000
IHC-P~~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
EIF5A2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

EIF5A2 Antibody (C-term) - Protein Information

Name EIF5A2

Function Translation factor that promotes translation elongation and termination, particularly upon ribosome stalling at specific amino acid sequence contexts (PubMed:14622290). 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}

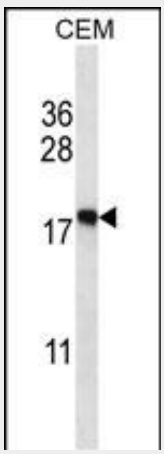
Tissue Location
Expressed in ovarian and colorectal cancer cell lines (at protein level). Highly expressed in testis. Overexpressed in some cancer cells.

EIF5A2 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

EIF5A2 Antibody (C-term) - Images



EIF5A2 Antibody (C-term) (Cat. #AP14052b) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the EIF5A2 antibody detected the EIF5A2 protein (arrow).

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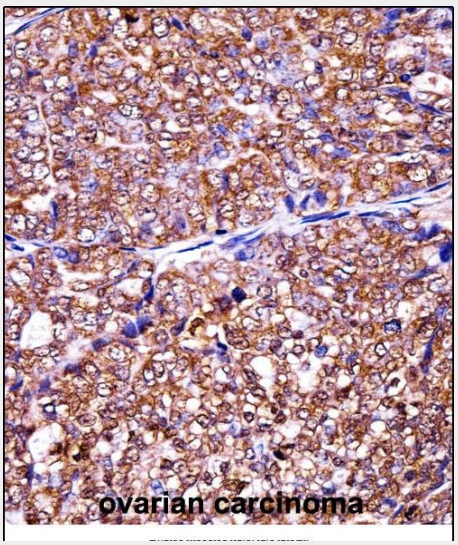

EIF5A2 Antibody (C-term) (AP14052b)immunohistochemistry analysis in formalin fixed and paraffin embedded human ovarian carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of EIF5A2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

EIF5A2 Antibody (C-term) - Background

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).

EIF5A2 Antibody (C-term) - References

Tang, D.J., et al. Hepatology 51(4):1255-1263(2010)
Luo, J.H., et al. Cancer Sci. 100(5):896-902(2009)
Chen, W., et al. Cancer Epidemiol. Biomarkers Prev. 18(2):400-408(2009)
Yang, G.F., et al. Gynecol. Oncol. 112(2):314-318(2009)
Xie, D., et al. Hum. Pathol. 39(1):80-86(2008)