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EEF1A2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12557b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q05639
Other Accession	P62632, Q71V39, P62631, Q32PH8, NP_001949.1
Reactivity	Mouse
Predicted	Bovine, Rabbit, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB31072
Calculated MW	50470
Antigen Region	366-395

Additional Information

Gene ID	1917
Other Names	Elongation factor 1-alpha 2, EF-1-alpha-2, Eukaryotic elongation factor 1 A-2, eEF1A-2, Statin-S1, EEF1A2, EEF1AL, STN
Target/Specificity	This EEF1A2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 366-395 amino acids from the C-terminal region of human EEF1A2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	EEF1A2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	EEF1A2 {ECO:0000303|PubMed:10950927, ECO:0000312|HGNC:HGNC:3192}
Function	Translation elongation factor that catalyzes the GTP- dependent binding of aminoacyl-tRNA (aa-tRNA) to the A-site of ribosomes during the elongation

phase of protein synthesis. Base pairing between the mRNA codon and the aa-tRNA anticodon promotes GTP hydrolysis, releasing the aa-tRNA from EEF1A1 and allowing its accommodation into the ribosome (By similarity). The growing protein chain is subsequently transferred from the P-site peptidyl tRNA to the A-site aa-tRNA, extending it by one amino acid through ribosome-catalyzed peptide bond formation (By similarity).

Cellular Location Endoplasmic reticulum membrane

Tissue Location Brain, heart, and skeletal muscle.

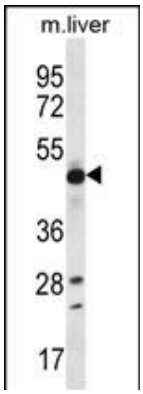
Background

This gene encodes an isoform of the alpha subunit of the elongation factor-1 complex, which is responsible for the enzymatic delivery of aminoacyl tRNAs to the ribosome. This isoform (alpha 2) is expressed in brain, heart and skeletal muscle, and the other isoform (alpha 1) is expressed in brain, placenta, lung, liver, kidney, and pancreas. This gene may be critical in the development of ovarian cancer. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

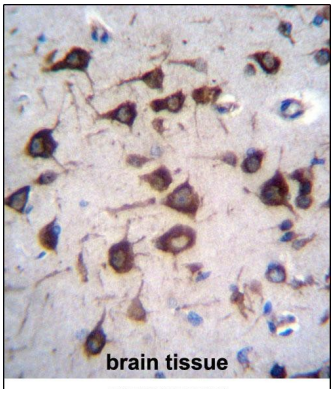
References

Zhang, Y., et al. J. Int. Med. Res. 38(3):1042-1048(2010)
Li, Z., et al. PLoS ONE 5 (5), E10755 (2010) :
Yanaka, N., et al. Biosci. Biotechnol. Biochem. 73(12):2809-2811(2009)
Lee, M.H., et al. Ann. N. Y. Acad. Sci. 1171, 87-93 (2009) :
Soares, D.C., et al. PLoS ONE 4 (7), E6315 (2009) :

Images



EEF1A2 Antibody (C-term) (Cat. #AP12557b) western blot analysis in mouse liver tissue lysates (35ug/lane).This demonstrates the EEF1A2 antibody detected the EEF1A2 protein (arrow).



EEF1A2 Antibody (C-term) (Cat. #AP12557b)immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of EEF1A2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.