

EF-1 α 1/2 (Acetyl Lys146) rabbit pAb

Catalog No :	YK0131
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	EF-1 α 1/2
Fields :	>>Nucleocytoplasmic transport;>>Legionellosis;>>Leishmaniasis
Gene Name :	EEF1A1 EEF1A EF1A LENG7
Protein Name :	EF-1 α 1/2 (Acetyl Lys146)
Human Gene Id :	1915
Human Swiss Prot No :	P68104/Q05639/Q5VTE0
Mouse Gene Id :	13627
Mouse Swiss Prot No :	P10126
Rat Gene Id :	171361
Rat Swiss Prot No :	P62630
Immunogen :	Synthesized peptide derived from human EF-1 α 1/2 (Acetyl Lys146)
Specificity :	This antibody detects endogenous levels of Human,Mouse,Rat EF-1 α 1/2 (Acetyl Lys146)
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:1000-2000 ELISA 1:5000-20000

Purification : The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 51kD

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 1) is expressed in brain, placenta, lung, liver, kidney, and pancreas, and the other isoform (alpha 2) is expressed in brain, heart and skeletal muscle. This isoform is identified as an autoantigen in 66% of patients with Felty syndrome. This gene has been found to have multiple copies on many chromosomes, some of which, if not all, represent different pseudogenes. [provided by RefSeq, Jul 2008],

Function : caution:Could be the product of a pseudogene.,function:This protein promotes the GTP-dependent binding of aminoacyl-tRNA to the A-site of ribosomes during protein biosynthesis.,similarity:Belongs to the GTP-binding elongation factor family. EF-Tu/EF-1A subfamily.,subunit:Found in a nuclear export complex with XPO5, EEF1A1, Ran and aminoacylated tRNA. Interacts with XPO5. May interact with ERGIC2.,tissue specificity:Brain, placenta, lung, liver, kidney, pancreas but barely detectable in heart and skeletal muscle.,

Subcellular Location : Cytoplasm . Nucleus . Nucleus, nucleolus . Cell membrane . Colocalizes with DLC1 at actin-rich regions in the cell periphery (PubMed:19158340). Translocates together with ZPR1 from the cytoplasm to the nucleus and nucleolus after treatment with mitogens (PubMed:8650580). Localization at the cell membrane depends on EEF1A1 phosphorylation status and the presence of PPP1R16B (PubMed:26497934). .

Expression : Brain, placenta, lung, liver, kidney, pancreas but barely detectable in heart and skeletal muscle.

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