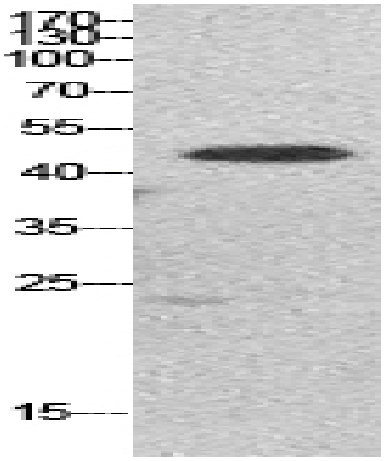
Best Tools for immunology Research

EF-1 α1/2 Polyclonal Antibody

Catalog No :	YT5494
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	EF-1 α1/2
Fields :	>>Nucleocytoplasmic transport;>>Legionellosis;>>Leishmaniasis
Gene Name :	EEF1A1/EEF1A2/EEF1A1P5
Protein Name :	Elongation factor 1-alpha 1/Elongation factor 1-alpha 2/Putative elongation factor 1-alpha-like 3
Human Gene Id :	1915/1917
Human Swiss Prot No :	P68104/Q05639/Q5VTE0
Mouse Gene Id :	13627/13628
Rat Gene Id :	171361/24799
Rat Swiss Prot No :	P62630/P62632
Immunogen :	Synthesized peptide derived from the N-terminal region of human EF-1 α1/2.
Specificity :	EF-1 α1/2 Polyclonal Antibody detects endogenous levels of EF-1 α1/2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	50kD
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.
Sort :	5423
No4 :	1
Host :	Rabbit
Modifications :	Unmodified

Products Images



Western Blot analysis of HepG2 cells using EF-1 α1/2 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000