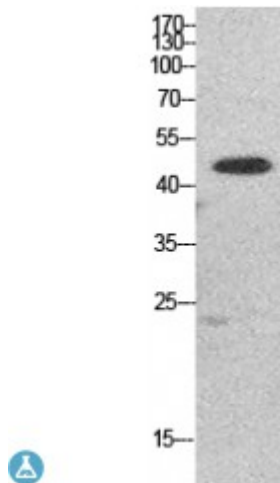


Anti-EF-1 alpha /2 antibody



Description	Rabbit polyclonal to EF-1 alpha1/2.
Model	STJ96859
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, WB
Immunogen	Synthesized peptide derived from human EF-1 alpha1/2.
Immunogen Region	N-terminal
Gene ID	1915
Gene Symbol	EEF1A1
Dilution range	WB 1:500-1:2000ELISA 1:20000
Specificity	EF-1 alpha1/2 Polyclonal Antibody detects endogenous levels of EF-1 alpha1/2 protein.
Tissue Specificity	Brain, placenta, lung, liver, kidney, pancreas but barely detectable in heart and skeletal muscle.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Elongation factor 1-alpha 1 EF-1-alpha-1 Elongation factor Tu EF-Tu Eukaryotic elongation factor 1 A-1 eEF1A-1 Leukocyte receptor cluster member 7

Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:31890MIM:130590
Alternative Names	Elongation factor 1-alpha 1 EF-1-alpha-1 Elongation factor Tu EF-Tu Eukaryotic elongation factor 1 A-1 eEF1A-1 Leukocyte receptor cluster member 7
Function	This protein promotes the GTP-dependent binding of aminoacyl-tRNA to the A-site of ribosomes during protein biosynthesis. With PARP1 and TXK, forms a complex that acts as a T helper 1 (Th1) cell-specific transcription factor and binds the promoter of IFN-gamma to directly regulate its transcription, and is thus involved importantly in Th1 cytokine production.
Cellular Localization	Cytoplasm Nucleus Nucleus, nucleolus Cell membrane. Colocalizes with DLC1 at actin-rich regions in the cell periphery . Translocates together with ZPR1 from the cytoplasm to the nucleus and nucleolus after treatment with mitogens . Localization at the cell membrane depends on EEF1A1 phosphorylation status and the presence of PPP1R16B .
Post-translational Modifications	ISGylated. Phosphorylated by TXK. Phosphorylation by PASK increases translation efficiency. Phosphorylated by ROCK2 . Trimethylated at Lys-79 by EEF1AKMT1 . Methylated at Lys-165 by EEF1AKMT3, methylation by EEF1AKMT3 is dynamic as well as inducible by stress conditions, such as ER-stress, and plays a regulatory role on mRNA translation . Trimethylated at Lys-318 by EEF1AKMT2 .