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eEF1A2 Rabbit pAb

Catalog # AP99230

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q05639
Other Accession	Q05639
Reactivity	Rat, Mouse
Predicted	Human, Zebrafish
Host	Rabbit
Clonality	Polyclonal
Calculated MW	50470
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human eEF1A2
Epitope Specificity	1-100/463
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the GTP-binding elongation factor family. EF-Tu/EF-1A subfamily.
SUBUNIT	Monomer
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Elongation factor 1 alpha 2 (EF-1 alpha2) is a eukaryotic protein translation factor that is expressed in terminally differentiated cells of skeletal muscle, heart, and certain areas of the brain. Along with protein synthesis, EF-1 alpha2 also plays a role in cytoskeletal remodelling and apoptosis. The gene encoding for EF-1 alpha2 maps to chromosome 20q13. Wasted (wst) refers to a spontaneous autosomal recessive mutation in which this gene is deleted, and it leads to tremors and disturbances of gait shortly after weaning, followed by motor neuron degeneration, paralysis, and death by about 28 days in mice. EF-1 alpha2 has the ability to transform mammalian cells and is highly expressed in tumors of the ovary, breast, and lung, thereby proving a good candidate for an oncogene. In addition to this, EF-1 alpha2 enhances focus formation, allows anchorage-independent growth, and decreases the doubling time of rodent fibroblasts.

Additional Information

Gene ID	1917
Other Names	DEE33; EEF1AL; EF-1-alpha-2; EF1A; EIEE33; HS1; MRD38; STN; STNL; Eef1a; S1; wasted; wst; Ps10; RATPS10; XELAEV_18046315mg; eef1a2; EF1A2_HUMAN; Eukaryotic elongation factor 1 A-2 (eEF1A-2); Statin-S1; 3.6.5.-; EF1A2_MOUSE; EF1A2_RAT; eukaryotic translation elongation factor 1 alpha 2; statin-like; statin
	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Dilution	
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.