eEF1A Antibody



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Applications: W, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Rabbit	UniProt ID: #P68104	Entrez-Gene Id: 1915
Product Usage Information	2	Application Western Blotting Immunofluorescence	e (Immunocytochem	istry)		Dilution 1:1000 1:25
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		eEF1A Antibody detects endogenous levels of total eEF1A protein.				
Species predicted to react based on 100% sequence homology		Xenopus				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to a sequence at the C-terminal end of human eEF1A. Antibodies are purified by peptide affinity chromatography.				
Background		Translation is the process where amino acid residues are assembled into polypeptides on ribosomes. This process is generally divided into three stages: initiation, elongation and termination. During elongation, mRNA and tRNA pair at the two active sites (A and P sites) on the ribosome. A number of eukaryotic elongation factors (eEFs) are involved in this process in mammalian cells (1). eEF1A, also called elongation factor Tu (EF-Tu), binds GTP and interacts with amino acyl-tRNAs to promote recruitment of amino acyl-tRNAs to the A-site of the ribosome (1). After GTP hydrolysis, GDP-eEF1A leaves the ribosome and is later converted back to the GTP-eEF1A by eEF1B (1). Studies have shown that eEF1A is phosphorylated under certain conditions, indicating that its activity is regulated at the post-translational level (2,3).				
Background References		1. Browne, G.J. and Proud, C.G. (2002) <i>Eur J Biochem</i> 269, 5360-8. 2. Venema, R.C. et al. (1991) <i>J Biol Chem</i> 266, 12574-80. 3. Venema, R.C. et al. (1991) <i>J Biol Chem</i> 266, 11993-8.				
Species Reacti	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 13 TBS, 0.1% Tween \circledR 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
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