CLK3 Antibody



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Applications: W, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 59, 17	Source/Isotype: Rabbit	UniProt ID: #P49761	Entrez-Gene Id: 1198
Product Usage Information	r	Application Western Blotting Immunofluorescence	(Immunocytochem	istry)		Dilution 1:1000 1:25
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		CLK3 Antibody detects endogenous levels of full-length and truncated forms of CLK3 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Tyr61 of human CLK3 (P49761-1). Antibodies were purified by protein A and peptide affinity chromatography.				
Background		The cdc2-like kinase (CLK) family contains at least four highly conserved isoforms: CLK1, CLK2, CLK3 and CLK4 (1,2). CLKs are dual specificity kinases that autophosphorylate on serine, threonine and tyrosine residues and phosphorylate exogenous substrates on serine and threonine residues (2). CLK family members exist as both a full-length catalytically active form and an alternatively-spliced, inactive truncated form (1). A family of highly phosphorylated proteins, called serine and arginine rich (SR) proteins, are phosphorylated by CLKs (3-5). SR proteins are splicing factors that regulate the assembly of the spliceosome, a macromolecular complex where RNA splicing occurs in the nucleus. They are also involved in the selection of splice sites. Thus, CLKs may play important roles in regulating RNA splicing. CLK3 is abundantly expressed in the testis and, similar to other family members, has been implicated in regulating RNA splicing (6-8).				
Background References		 Hanes, J. et al. (1994) J. Mol. Biol. 244, 665-672. Nayler, O. et al. (1997) Biochem. J. 326, 693-700. Colwill, K. et al. (1996) EMBO J. 15, 265-275. Prasad, J. and Manley, J.L. (2003) Mol. Cell Biol. 23, 4139-4149. Muraki, M. et al. (2004) J. Biol. Chem. 279, 24246-24254. Menegay, H. et al. (1999) Exp. Cell Res. 253, 463-473. Becker, W. et al. (1996) Biochim. Biophys. Acta 1312, 63-67. Duncan, P.I. et al. (1998) Exp. Cell Res. 241, 300-308. 				

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 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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