10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Mouse Clk4 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14615a

Product Information

Application	WB, E
Primary Accession	O35493
Other Accession	NP_031740.1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34746
Calculated MW	57345
Antigen Region	49-77

Additional Information

Gene ID	12750
Other Names	Dual specificity protein kinase CLK4, CDC-like kinase 4, Clk4
Target/Specificity	This Mouse Clk4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 49-77 amino acids from the N-terminal region of mouse Clk4.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Mouse Clk4 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Clk4
Function	Dual specificity kinase acting on both serine/threonine and tyrosine-containing substrates. Phosphorylates serine- and arginine- rich (SR) proteins of the spliceosomal complex and may be a constituent of a network of regulatory mechanisms that enable SR proteins to control RNA splicing.

	Phosphorylates SRSF1 and SRSF3. Required for the regulation of alternative splicing of MAPT/TAU. Regulates the alternative splicing of tissue factor (F3) pre-mRNA in endothelial cells.
Cellular Location	Nucleus.
Tissue Location	Expressed in the hippocampus, the cerebellum and the olfactory bulb.

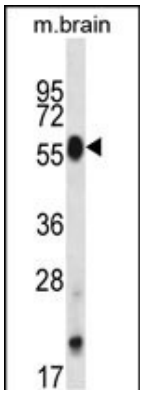
Background

Phosphorylates serine-and arginine-rich (SR) proteins of the spliceosomal complex may be a constituent of a network of regulatory mechanisms that enable SR proteins to control RNA splicing. Phosphorylates serines, threonines and tyrosines. Required for the regulation of alternative splicing of MAPT/TAU.

References

Katsu, R., et al. J. Biol. Chem. 277(46):44220-44228(2002)
Hartmann, A.M., et al. Mol. Cell. Neurosci. 18(1):80-90(2001)
Watkins-Chow, D.E., et al. Genomics 45(1):147-157(1997)
Nayler, O., et al. Biochem. J. 326 (PT 3), 693-700 (1997) :

Images



Mouse Clk4 Antibody (N-term) (Cat. #AP14615a) western blot analysis in mouse brain tissue lysates (35ug/lane).This demonstrates the Clk4 antibody detected the Clk4 protein (arrow).