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Cdk14 antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI14749

Product Information

Application	WB
Primary Accession	O35495
Other Accession	NM_011074, NP_035204
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse
Predicted	Human, Mouse, Rat, Rabbit, Pig, Chicken, Dog, Guinea Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52996

Additional Information

Gene ID	18647
Alias Symbol	Pftk1, mKIAA0834
Other Names	Cyclin-dependent kinase 14, 2.7.11.22, Cell division protein kinase 14, Serine/threonine-protein kinase PFTAIRE-1, Cdk14, Kiaa0834, Pftk1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Cdk14 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Cdk14 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

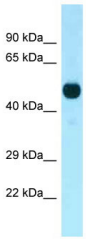
Name	Cdk14
Synonyms	Kiaa0834, Pftk1
Function	Serine/threonine-protein kinase involved in the control of the eukaryotic cell cycle, whose activity is controlled by an associated cyclin. Acts as a cell-cycle regulator of Wnt signaling pathway during G2/M phase by mediating the phosphorylation of LRP6 at 'Ser-1490', leading to the activation of the Wnt signaling pathway. Acts as a regulator of cell cycle progression and cell proliferation via its interaction with CCDN3. Phosphorylates RB1 in vitro, however the relevance of such result remains to be confirmed in vivo. May also play a role in meiosis, neuron differentiation and may indirectly act as a

	negative regulator of insulin-responsive glucose transport (By similarity).
Cellular Location	Cell membrane; Peripheral membrane protein. Cytoplasm. Nucleus. Note=Recruited to the cell membrane by CCNY.
Tissue Location	In the adult, widely expressed at low levels except in brain, kidney and testis where expression is high. In the brain, detected in cortex, hippocampus, dentate gyrus, amygdala cortex, parasubiculum and cerebellum. In the embryo, expressed predominantly in the nervous system.

References

Besset V.,et al.Mol. Reprod. Dev. 50:18-29(1998).
Lazzaro M.A.,et al.J. Neurochem. 69:348-364(1997).
Carninci P.,et al.Science 309:1559-1563(2005).
Okazaki N.,et al.DNA Res. 10:167-180(2003).

Images



WB Suggested Anti-Cdk14 Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Pancreas