

# Cdk14 antibody - C-terminal region

Rabbit Polyclonal Antibody

Catalog # AI14749

## Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">O35495</a>
<b>Other Accession</b>	<a href="#">NM_011074</a> , <a href="#">NP_035204</a>
<b>Reactivity</b>	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse
<b>Predicted</b>	Human, Mouse, Rat, Rabbit, Pig, Chicken, Dog, Guinea Pig
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	52996

## Additional Information

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<b>Gene ID</b>	18647
<b>Alias Symbol</b>	Pftk1, mKIAA0834
<b>Other Names</b>	Cyclin-dependent kinase 14, 2.7.11.22, Cell division protein kinase 14, Serine/threonine-protein kinase PFTAIRES-1, Cdk14, Kiaa0834, Pftk1
<b>Format</b>	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
<b>Reconstitution &amp; Storage</b>	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.
<b>Precautions</b>	Cdk14 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	Cdk14
<b>Synonyms</b>	Kiaa0834, Pftk1
<b>Function</b>	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.

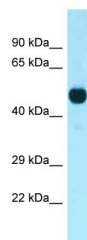
## References

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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

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

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