

**hPFTK1-M1 Antibody Blocking Peptide**

Synthetic peptide

Catalog # BP9800b

**Specification**

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**hPFTK1-M1 Antibody Blocking Peptide - Product Information**

Primary Accession

[O94921](#)

Other Accession

[NP\\_036527](#)**hPFTK1-M1 Antibody Blocking Peptide - Additional Information****Gene ID** 5218**Other Names**

Cyclin-dependent kinase 14, Cell division protein kinase 14, Serine/threonine-protein kinase PFTK1, hPFTK1, CDK14, KIAA0834, PFTK1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**hPFTK1-M1 Antibody Blocking Peptide - 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.

**Cellular Location**

Cell membrane; Peripheral membrane protein. Cytoplasm. Nucleus. Note=Recruited to the cell membrane by CCNY

**Tissue Location**

Highly expressed in brain, pancreas, kidney, heart, testis and ovary. Also detected at lower levels

in other tissues except in spleen and thymus where expression is barely detected

### **hPFTK1-M1 Antibody Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

### **hPFTK1-M1 Antibody Blocking Peptide - Images**

### **hPFTK1-M1 Antibody Blocking Peptide - Background**

PFTK1 is a member of the CDC2 (MIM 116940)-related protein kinase family.

### **hPFTK1-M1 Antibody Blocking Peptide - References**

Malumbres, M., et al. Nat. Cell Biol. 11(11):1275-1276(2009)Jiang, M., et al. FEBS Lett. 583(13):2171-2178(2009)de Krom, M., et al. Biol. Psychiatry 65(7):625-630(2009)Denoeud, F., et al. Genome Res. 17(6):746-759(2007)Shu, F., et al. Proc. Natl. Acad. Sci. U.S.A. 104(22):9248-9253(2007)