

**PFTK1 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7026b****Specification**

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**PFTK1 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [O94921](#)**PFTK1 Antibody (C-term) 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

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7026b](/product/products/AP7026b) was selected from the C-term region of human PFTK1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

**PFTK1 Antibody (C-term) 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

**PFTK1 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**PFTK1 Antibody (C-term) Blocking Peptide - Images****PFTK1 Antibody (C-term) Blocking Peptide - Background**

PFTK1 belongs to the Ser/Thr protein kinase family; CDC2/CDKX subfamily. It is 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. PFTK1 may play a role in meiosis as well as in neuron differentiation and/or function.

**PFTK1 Antibody (C-term) Blocking Peptide - References**

Scherer, S.W., et al., Science 300(5620):767-772 (2003). Yang, T., et al., Gene 267(2):165-172 (2001). Lazzaro, M.A., et al., J. Neurochem. 69(1):348-364 (1997).