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hPFTK1-M1 Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9800b

Specification

hPFTK1-M1 Antibody - Product Information

Application	**WB,E**
Primary Accession	O94921
Other Accession	B6A7Q3, O35495, NP_036527
Reactivity	**Human, Mouse**
Predicted	**Rabbit**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**53057**
Antigen Region	**1-30**

hPFTK1-M1 Antibody - Additional Information

Gene ID 5218

Other Names
Cyclin-dependent kinase 14, Cell division protein kinase 14, Serine/threonine-protein kinase PFTAIRE-1, hPFTAIRE1, CDK14, KIAA0834, PFTK1

Target/Specificity
This hPFTK1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from human hPFTK1.

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
hPFTK1-M1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

hPFTK1-M1 Antibody - 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

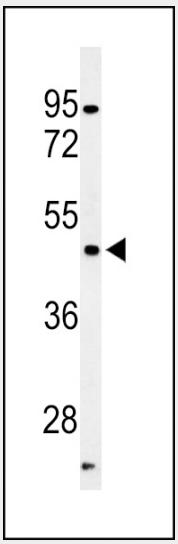
Tissue Location
Highly expressed in brain, pancreas, kidney, heart, testis and ovary. Also detected at lower levels in other tissues except in spleen and thymus where expression is barely detected

hPFTK1-M1 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

hPFTK1-M1 Antibody - Images



Western blot analysis of hPFTK1-M1 (Cat. #AP9800b) in mouse liver tissue lysates (35ug/lane). PFTK1 (arrow) was detected using the purified Pab.

hPFTK1-M1 Antibody - Background

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

hPFTK1-M1 Antibody - References

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