

For Research Use Only

# PFTK1 Polyclonal antibody

Catalog Number: 21612-1-AP **4 Publications**



## Basic Information

<b>Catalog Number:</b> 21612-1-AP	<b>GenBank Accession Number:</b> BC136477	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 450 µg/ml	<b>GeneID (NCBI):</b> 5218	<b>Recommended Dilutions:</b> WB 1:500-1:3000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O94921	
<b>Isotype:</b> IgG	<b>Full Name:</b> PFTAIRE protein kinase 1	
<b>Immunogen Catalog Number:</b> AG16259	<b>Calculated MW:</b> 469 aa, 53 kDa	
	<b>Observed MW:</b> 48-53 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells, mouse brain tissue, SH-SY5Y cells IHC : human kidney tissue, mouse brain tissue
<b>Cited Applications:</b> WB, IF, IHC	
<b>Species Specificity:</b> human, mouse	
<b>Cited Species:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

PFTK1 is a Cdc2-related protein kinase, also named as PFTAIRE1, CDK14 and belongs to the CMGC Ser/Thr protein kinase family and CDC2/CDKX subfamily. It acts as a cyclin-dependent kinases that regulates cell cycle progression and cell proliferation. The PFTK1 protein shows high homology with mouse Pftaire1, a Cdc2-related protein expressed primarily in the postnatal and adult nervous system (PMID:9202329). The protein contains 2 predicted nuclear localization signals that the N-terminal nuclear localization signals do not play a role in vivo (PMID:11313143). It has 3 isoforms produced by alternative splicing. This antibody is specific to PFTK1.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoling Yin	33217595	World Neurosurg	WB
Daniel Pollack	25680692	Toxicol Lett	WB, IHC, IF
Jingwei Li	30557834	Biomed Pharmacother	WB, IHC

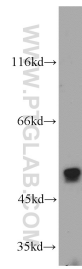
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

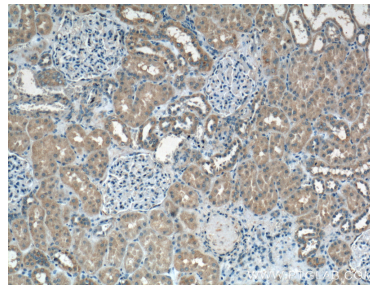
For technical support and original validation data for this product please contact:  
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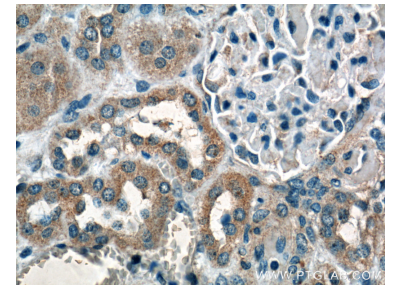
## Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 21612-1-AP (PFTK1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 21612-1-AP (PFTK1 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 21612-1-AP (PFTK1 Antibody) at dilution of 1:200 (under 40x lens).