

For Research Use Only

# PFTK1 Polyclonal antibody

Catalog Number: 21612-1-AP

5 Publications



## Basic Information

Catalog Number:

21612-1-AP

Concentration:

450 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG16259

GenBank Accession Number:

BC136477

GeneID (NCBI):

5218

UNIPROT ID:

O94921

Full Name:

PFTAIRE protein kinase 1

Calculated MW:

469 aa, 53 kDa

Observed MW:

48-53 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IHC 1:50-1:500

## Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB : HeLa cells, mouse brain tissue, SH-SY5Y cells

IHC : human kidney tissue, mouse brain tissue

## 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:

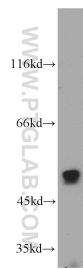
T: 4006900926

E: Proteintech-CN@ptglab.com

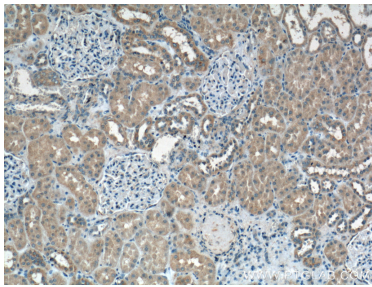
W: ptgcn.com

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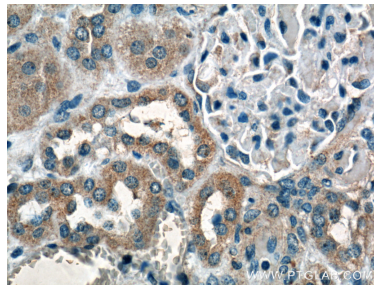
Selected Validation Data



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).