For Research Use Only

Chk1 Polyclonal antibody

Catalog Number:25887-1-AP Featured Product 48 Publications

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Basic Information

Catalog Number:
25887-1-AP

Concentration:
450 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG22993

GenBank Accession Number:
BC004202

GeneID (NCBI):
1111

UNIPROT ID:
O14757

Full Name:
CHK1 checkpoint homolog (S. pombe)

Calculated MW:
54 kDa

Observed MW:
55 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:6000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:100-1:400
IF/ICC: 1:50-1:500
FC (Intra): 0.20 ug per 10^6 cells in a 100 µl suspension

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP

Species Specificity:
human

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 : HEK-293T cells, HeLa cells, K-562 cells, MCF-7 cells

IP : HEK-293T cells,

IHC : human kidney tissue,

IF/ICC : HEK-293T cells,

FC (Intra) : HEK-293T cells,

Background Information

CHEK1(Checkpoint kinase-1) is also named as CHK1 and belongs to the protein kinase superfamily. It is implicated in a circuit in which it activates checkpoints, DNA repair and proliferating cell nuclear antigen and FANCD2 monoubiquitinylation(PMID:21389083). CHEK1 protects vertebrate cells against spontaneous chromosome missegregation and is required to sustain anaphase delay when spindle function is disrupted by taxol(PMID:17276342). It has 3 isoforms produced by alternative splicing with the molecular mass of 54 kDa, 44 kDa and 50 kDa.

Notable Publications

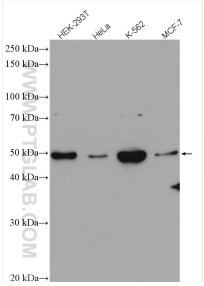
Author	Pubmed ID	Journal	Application
Yeunting Hsieh	32988875	Anticancer Res	WB
Jingyuan Sun	33087136	J Exp Clin Cancer Res	WB,IF
Tai-Hsin Tsai	34858180	Front Pharmacol	WB

Storage

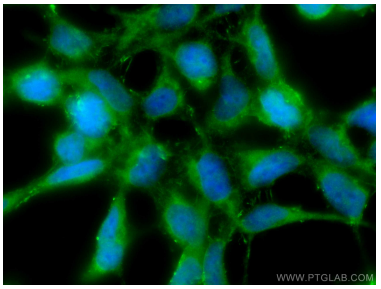
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

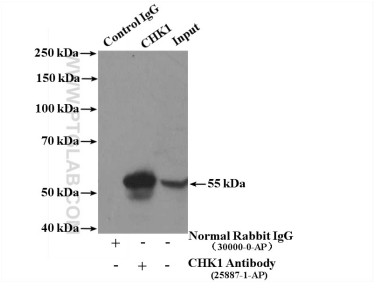
Selected Validation Data



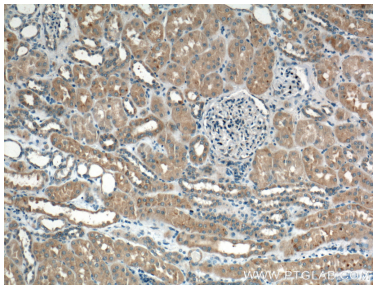
Various lysates were subjected to SDS PAGE followed by western blot with 25887-1-AP (Chk1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



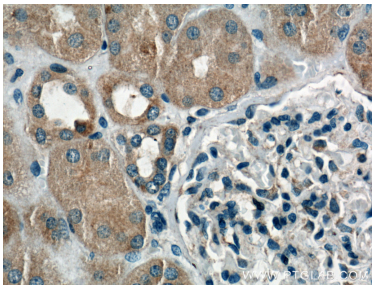
Immunofluorescent analysis of (-20°C Methanol) fixed HEK-293T cells using Chk1 antibody (25887-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



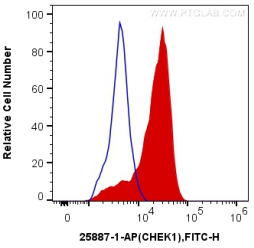
IP result of anti-Chk1 (IP:25887-1-AP, 4ug; Detection:25887-1-AP 1:600) with HEK-293T cells lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 25887-1-AP (CHK1 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 25887-1-AP (CHK1 Antibody) at dilution of 1:200 (under 40x lens).



1X10^6 HEK-293T cells were intracellularly stained with 0.2 ug Anti-Human Chk1 (25887-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).