For Research Use Only

JNK Monoclonal antibody

Catalog Number:66210-1-Ig Featured Product 114 Publications

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Basic Information

Catalog Number:
66210-1-Ig

Size:
1000 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG21426

GenBank Accession Number:
BC130572

GeneID (NCBI):
5599

UNIPROT ID:
P45983

Full Name:
mitogen-activated protein kinase 8

Calculated MW:
48 kDa

Observed MW:
44-48 kDa, 50-55 kDa

Purification Method:
Protein A purification

CloneNo.:
1A12E1

Recommended Dilutions:
WB 1:3000-1:20000
IHC 1:500-1:2000

Applications

Tested Applications:
FC, IHC, WB, ELISA

Cited Applications:
WB,IHC,IF

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse, rabbit, pig

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, LNCaP cells, Ethacrynic acid treated HeLa cells, RAW 264.7 cells, C6 cells, HeLe cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, 4T1 cells, NIH/3T3 cells

IHC : human lung cancer tissue, human prostate cancer tissue

Background Information

MAPK8(Mitogen-activated protein kinase 8) is also named as JNK1, PRKM8, SAPK1, SAPK1C and belongs to the MAP kinase subfamily. MAPK8 is activated by dual phosphorylation at a Thr-Pro-Tyr motif during response to UV light. MAPK8 functions to phosphorylate c-Jun at N-terminal serine regulatory sites of Ser-63 and Ser-73, mapping within the transactivation domain. Phosphorylation of these sites in response to UV results in transcriptional activation of c-Jun. It has some isoforms produced by alternative splicing with the molecular weight of 46 kDa and 48 kDa. This protein can be phosphorylated and this antibody recognizes the 46 kDa and 55 kDa bands in western blot(PMID:11062067). This antibody can recognize JNK1, JNK2 and JNK3.

Notable Publications

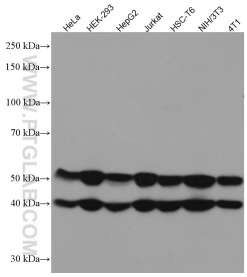
Author	Pubmed ID	Journal	Application
Weiche Wu	30273672	Free Radic Biol Med	WB
Liping Wang	34559939	IUBMB Life	WB
Qingling Xie	36106411	FEBS Open Bio	WB

Storage

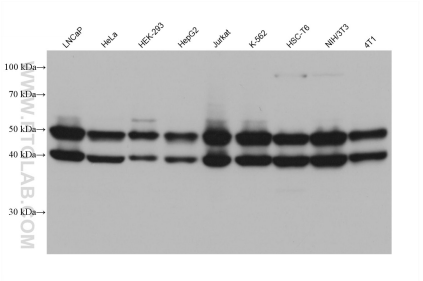
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66210-1-Ig (JNK antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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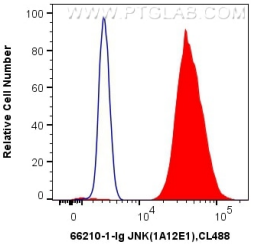
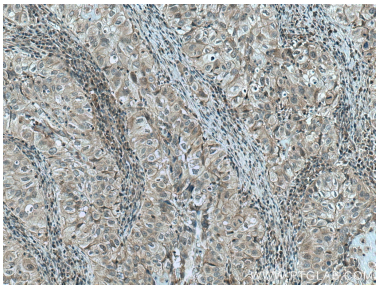
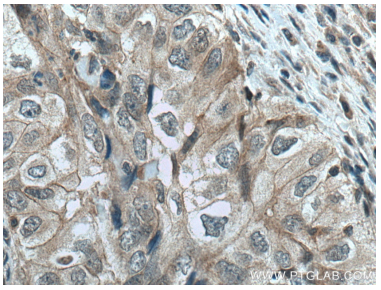


1X10^6 HeLa cells were intracellularly stained with 0.5 ug Anti-Human JNK (66210-1-Ig, Clone:1A12E1) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.5 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66210-1-Ig (JNK antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66210-1-Ig (JNK antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).