For Research Use Only

JNK Polyclonal antibody

Catalog Number:24164-1-AP 152 Publications

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Basic Information

Catalog Number:
24164-1-AP

Size:
150ul , Concentration: 450 µg/ml by Nanodrop and 287 µg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

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:
42 kDa, 50 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:16000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF/ICC 1:200-1:800

Applications

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

Cited Applications:
WB, IHC, IF, CoIP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, 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 : A431 cells, Jurkat cells, NIH/3T3 cells, HEK-293 cells, HeLa cells, Neuro-2a cells, mouse brain tissue, rat brain tissue

IP : A431 cells,

IHC : human colon cancer tissue, human stomach cancer tissue

IF/ICC : Jurkat cells,

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
Fudi Lin	31547097	Mar Drugs	WB
Zhiwei Wang	30248660	Thromb Res	WB
Minjing Li	31546831	Biomolecules	WB

Storage

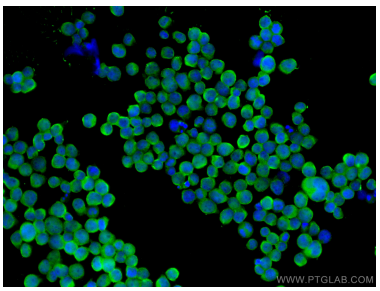
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

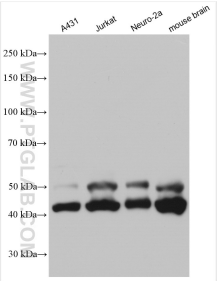
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

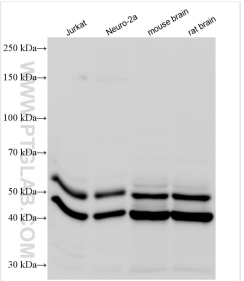
Selected Validation Data



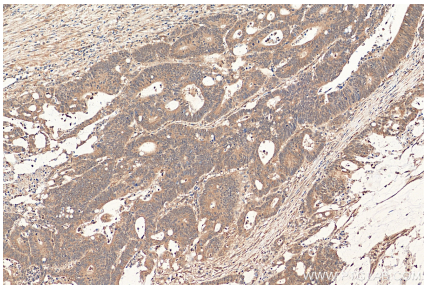
Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using JNK antibody (24164-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



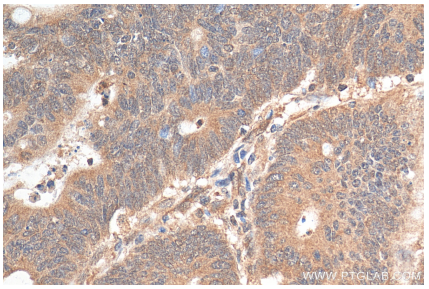
Various lysates were subjected to SDS PAGE followed by western blot with 24164-1-AP (JNK antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



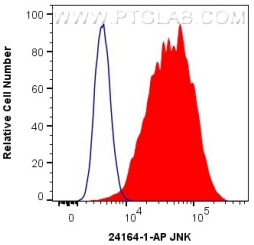
Various lysates were subjected to SDS PAGE followed by western blot with 24164-1-AP (JNK antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



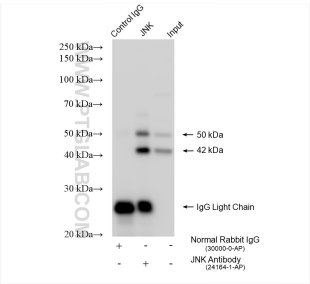
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 24164-1-AP (JNK antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 24164-1-AP (JNK antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human JNK (24164-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



IP result of anti-JNK (IP:24164-1-AP, 4ug; Detection:24164-1-AP 1:10000) with A431 cells lysate 1280 ug.