

For Research Use Only

JNK Polyclonal antibody

Catalog Number: 24164-1-AP 176 Publications



Basic Information

Catalog Number: 24164-1-AP	GenBank Accession Number: BC130572	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 450 ug/ml by Nanodrop and 287 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5599	Recommended Dilutions: WB 1:2000-1:16000
Source: Rabbit	UNIPROT ID: P45983	IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
Isotype: IgG	Full Name: mitogen-activated protein kinase 8	IHC 1:50-1:500
Immunogen Catalog Number: AG21426	Calculated MW: 48 kDa	IF/ICC 1:200-1:800
	Observed MW: 42 kDa, 50 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, FC (Intra), IP, ELISA	Positive Controls:
Cited Applications: WB, IHC, IF, CoIP	WB: A431 cells, Jurkat cells, NIH/3T3 cells, HEK-293 cells, HeLa cells, Neuro-2a cells, mouse brain tissue, rat brain tissue
Species Specificity: human, mouse, rat	IP: A431 cells,
Cited Species: human, mouse, rat, pig	IHC: human colon cancer tissue, human stomach cancer tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	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

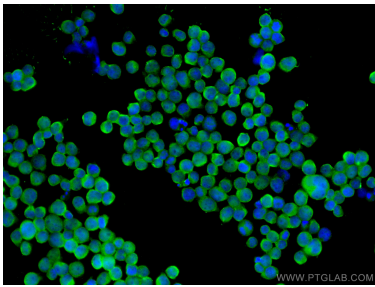
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

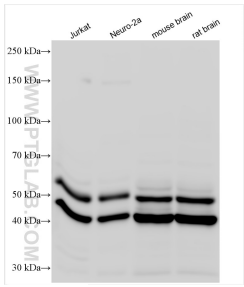
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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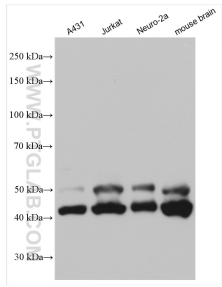
Selected Validation Data



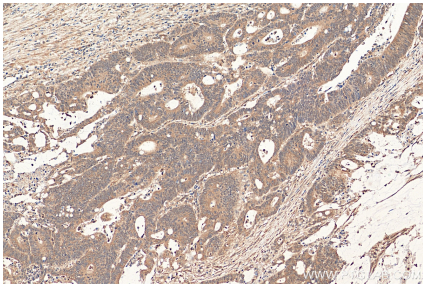
Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using JNK antibody (24164-1-AP) at dilution of 1:400 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



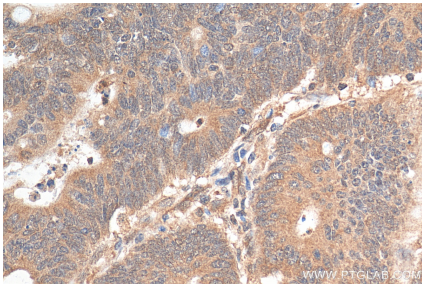
Various lysates were subjected to SDS PAGE followed by western blot with 24164-1-AP (JNK antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



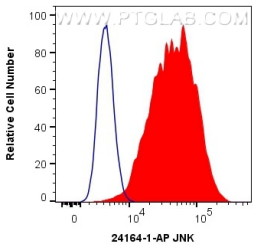
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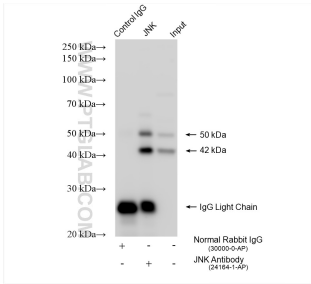
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 24164-1-AP (JNK antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1X10⁶ 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.