

For Research Use Only

JNK Polyclonal antibody

Catalog Number: 51151-1-AP **110 Publications**



Basic Information

Catalog Number: 51151-1-AP	GenBank Accession Number: NM_138982	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 450 µg/ml by Nanodrop and 260 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5599	Recommended Dilutions: WB 1:500-1:3000 IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	Full Name: mitogen-activated protein kinase 8	
Isotype: IgG	Calculated MW: 48 kDa	
	Observed MW: 44-48 kDa, 50-55 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls: WB : 4T1 cells, mouse brain tissue, A431 cells, HEK-293 cells, HepG2 cells, Jurkat cells, Neuro-2a cells, C6 cells, NIH/3T3 cells
Cited Applications: IHC, IP, WB	IHC : human colon cancer tissue, human lung cancer tissue
Species Specificity: human, mouse	IF : SH-SY5Y cells,
Cited Species: human, mouse, pig, rat	

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

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Jie Ren	30251384	J Pharm Pharmacol	WB
Haixia Luo	32778560	J Bacteriol	WB
Yuqing Mao	27665476	Biomed Pharmacother	WB

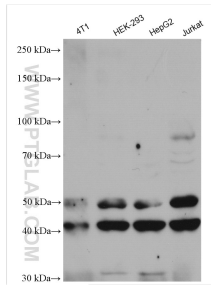
Storage

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

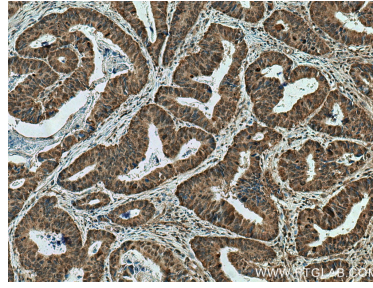
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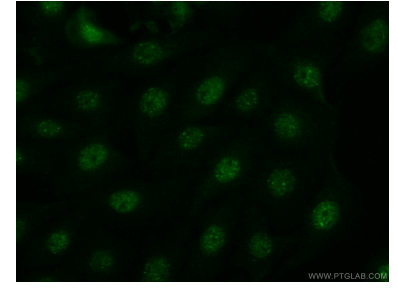
Selected Validation Data



4T1 cells were subjected to SDS PAGE followed by western blot with 51151-1-AP (JNK antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 51151-1-AP (JNK antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Acetone) fixed SH-SY5Y cells using 51151-1-AP (JNK antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).