

Product datasheet for **TA392547S**

JNK1 (MAPK8) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1:10000~1:20000 IHC: 1:50~1:200 IF: 1:50~1:200
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic phosphopeptide derived from human JNK1/2/3 around the phosphorylation site of Threonine 183 / Tyrosine 185.
Specificity:	JNK1/2/3 (Phospho-T183/Y185) polyclonal antibody detects endogenous levels of JNK1/2/3 protein only when phosphorylated at Thr183/Tyr185.
Formulation:	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.
Concentration:	1mg/ml
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Stability:	1 year
Predicted Protein Size:	~ 54 kDa
Gene Name:	mitogen-activated protein kinase 8
Database Link:	Entrez Gene 5599 Human P45983



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Background:

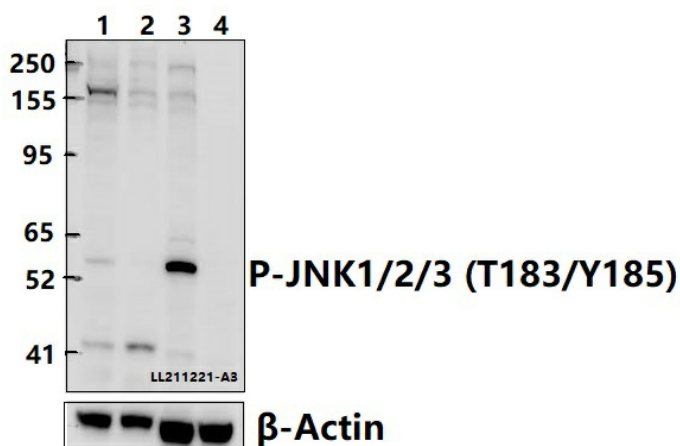
The stress-activated protein kinase/Jun-amino-terminal kinase SAPK/JNK is potently and preferentially activated by a variety of environmental stresses including UV and gamma radiation, ceramides, inflammatory cytokines, and in some instances, growth factors and GPCR agonists. As with the other MAPKs, the core signaling unit is composed of a MAPKKK, typically MEKK1-MEKK4, or by one of the mixed lineage kinases (MLKs), which phosphorylate and activate MKK4/7. Upon activation, MKKs phosphorylate and activate the SAPK/JNK kinase. Stress signals are delivered to this cascade by small GTPases of the Rho family (Rac, Rho, cdc42). Both Rac1 and cdc42 mediate the stimulation of MEKKs and MLKs. Alternatively, MKK4/7 can be activated in a GTPase-independent mechanism via stimulation of a germinal center kinase (GCK) family member. There are three SAPK/JNK genes each of which undergoes alternative splicing, resulting in numerous isoforms. SAPK/JNK, when active as a dimer, can translocate to the nucleus and regulate transcription through its effects on c-Jun, ATF-2, and other transcription factors.

Synonyms:

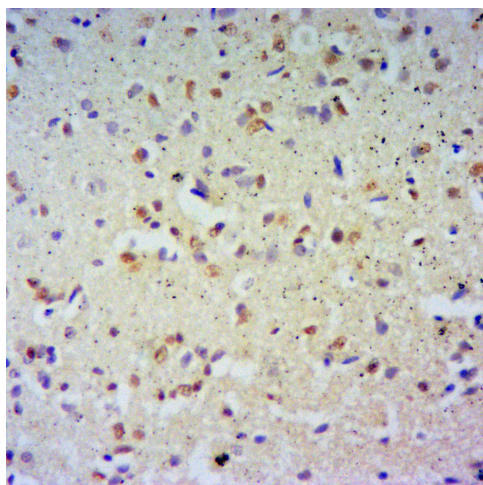
c-Jun N-terminal kinase 1; JNK-46; JNK1, PRKM8, SAPK1, SAPK1C; MAPK 8; MAPK8; MAP kinase 8; Mitogen-activated protein kinase 8; SAPK1c; Stress-activated protein kinase 1c; Stress-activated protein kinase JNK1

Note:

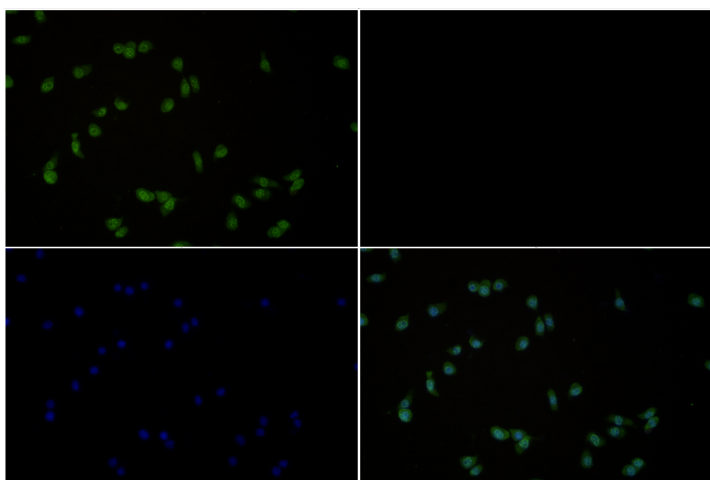
For research use only, not for use in diagnostic procedure.

Product images:

Western blot (WB) analysis of JNK1/2/3 (Phospho-T183/Y185) polyclonal antibody at 1:20000 dilution. Lane 1: HEK293T whole cell lysate (40ug). Lane 2: HEK293T treated with λ -phosphatase whole cell lysate (40ug). Lane 3: BV2 whole cell lysate (40ug). Lane 4: BV2 treated with λ -phosphatase whole cell lysate (40ug).



Immunohistochemistry of paraffin-embedded Rat Brain using JNK1/2/3 (Phospho-T183/Y185) antibody at dilution of 1:50.



Immunofluorescence analysis of BV2 cells using JNK1/2/3 (Phospho-T183/Y185) antibody at dilution of 1:50.