

AP01893PU-N**Polyclonal Antibody to JNK1/2/3 pThr183/pTyr185 - Aff - Purified**

Alternate names:	JNK-1, JNK-46 PRKM8, JNK1, MAPK-8, Mitogen-activated protein kinase 8, SAPK, Stress-activated protein kinase JNK1, c-Jun N-terminal kinase 1
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	The mitogen-activated protein (MAP) kinases ERK 1 and ERK 2 are prolinedirected kinases that are activated through concomitant phosphorylation of tyrosine and threonine residues. The JNK family, which includes JNK1, JNK2 and JNK3, is distantly related to the MAP kinase family, members of which are activated by dual phosphorylation at a Thr-Pro-Tyr motif, specifically at Thr 183 and Tyr 185 residues, in response to ultraviolet (UV) light. This motif is divergent from the Thr-Glu-Tyr motif characteristic of the MAP kinase family. JNK is phosphorylated by JNK-activating kinase (JNKK1 and JNKK2), which are members of the MEK family. Activated JNK mediates the phosphorylation of c-Jun at the amino-terminal serine regulatory sites, Ser 63 and Ser 73, which stimulates the transactivation function of c-Jun.
Host:	Rabbit
Immunogen:	Synthetic phosphopeptide derived from human JNK1 around the phosphorylation site of Threonine 183 and Tyrosine 185.
Format:	State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Purification: Affinity Chromatography using epitope-specific immunogen Buffer System: Phosphate buffered saline (PBS), pH~7.2 Preservatives: 0.05% Sodium Azide
Applications:	Western blot: 1/500-1/1000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Molecular Weight:	~ 46,54 kDa
Specificity:	This antibody detects endogenous levels of of JNK1/2/3 protein when phosphorylated at Thr183 and Tyr185.
Species Reactivity:	Tested: Human. Expected from sequence similarity: Mouse and Rat.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: One year from despatch.
General Readings:	1. Zhang Q, Wang J, Duan MT, Han SP, Zeng XY, Wang JY. NF-κB, ERK, p38 MAPK and JNK contribute to the initiation and/or maintenance of mechanical allodynia induced by tumor necrosis factor-alpha in the red nucleus. Brain Res Bull. 2013 Oct;99:132-9. doi: 10.1016/j.brainresbull.2013.10.008. Epub 2013 Oct 23. PubMed PMID: 24161765. 2. Li Y, Niu Y, Sun Y, Mei L, Zhang B, Li Q, et al. An apple oligogalactan potentiates the growth inhibitory effect of celecoxib on colorectal cancer. Nutr Cancer. 2014;66(1):29-37. doi: 10.1080/01635581.2014.847965. Epub 2013 Nov 25. PubMed

PMID: 24274457.

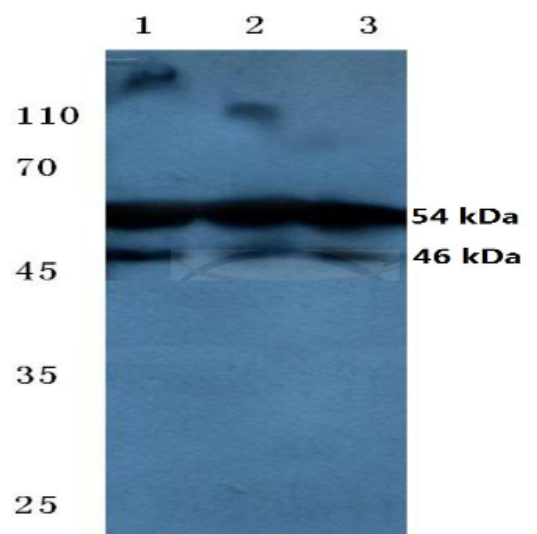
3. Dong D, Xu L, Han X, Qi Y, Xu Y, Yin L, et al. Effects of the total saponins from *Rosa laevigata* Michx fruit against acetaminophen-induced liver damage in mice via induction of autophagy and suppression of inflammation and apoptosis. *Molecules*. 2014 May 30;19(6):7189-206. doi: 10.3390/molecules19067189. PubMed PMID: 24886943.

4. Gao MY, Chen L, Yang L, Yu X, Kou JP, Yu BY. Berberine inhibits LPS-induced TF procoagulant activity and expression through NF- κ B/p65, Akt and MAPK pathway in THP-1 cells. *Pharmacol Rep*. 2014 Jun;66(3):480-4. doi: 10.1016/j.pharep.2013.12.004. Epub 2014 Apr 3. PubMed PMID: 24905527.

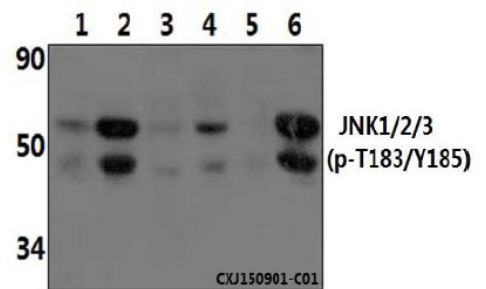
5. Nie Q, Wang C, Song G, Ma H, Kong D, Zhang X, et al. Mitofusin 2 deficiency leads to oxidative stress that contributes to insulin resistance in rat skeletal muscle cells. *Mol Biol Rep*. 2014 Oct;41(10):6975-83. doi: 10.1007/s11033-014-3584-9. Epub 2014 Jul 18. PubMed PMID: 25034891.

Pictures:

Western blot analysis of JNK1/2/3 (pThr183+Tyr185) antibody (Cat.-No.: AP01893PU-N) at 1/500 dilution:
 Lane 1: MCF-7 cell lysate treated with UV.
 Lane 2: sp2/0 cell lysate treated with UV.
 Lane 3: PC12 cell lysate treated with UV.



Western blot analysis of JNK1/2/3 (pThr183+Tyr185) antibody (Cat.-No.: AP01893PU-N) at 1/500 dilution: Lane 1: HEK293T whole cell lysate (40 μ g). Lane 2: HEK293T treated with UV (15 mn) whole cell lysate (40 μ g). Lane 3: NIH-3T3 whole cell lysate (40 μ g). Lane 4: NIH-3T3 treated with UV (15 mn) whole cell lysate (40 μ g). Lane 5: H9C2 whole cell lysate (40 μ g). Lane 6: H9C2 treated with UV (4h) whole cell lysate (40 μ g).



Western blot analysis of JNK1/2/3 (pThr183+Tyr185) antibody (Cat.-No.: AP01893PU-N) in extracts from 293 cells treated with UV, 5mins.

