Phospho-JNK1/JNK2 (Thr183, Tyr185) Polyclonal Antibody

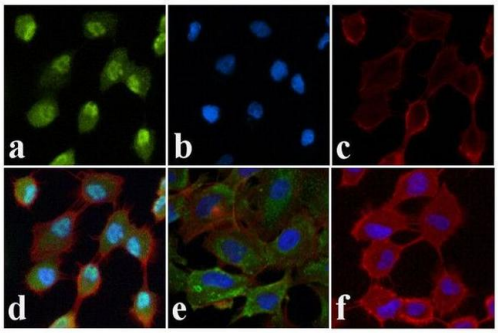
Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Pig, Insect, Non-human primate, Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	The antiserum was produced against a chemically synthesized phosphopeptide derived from a region of human JNK1&2 that contains threonine 183 and tyrosine 185. This region is conserved among many species including mouse, rat, chicken, nematode, fruit fly, and in JNK3.
Form	Liquid
Purification	Antigen affinity chromatography
Storage buffer	Dulbecco's PBS, pH 7.3, with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20°C
RRID	AB_2533720

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	48 Publications
Immunohistochemistry (IHC)	Assay-dependent	4 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunocytochemistry (ICC/IF)	1:250	2 Publications
Immunoprecipitation (IP)	-	1 Publication
Miscellaneous PubMed (Misc)	-	3 Publications

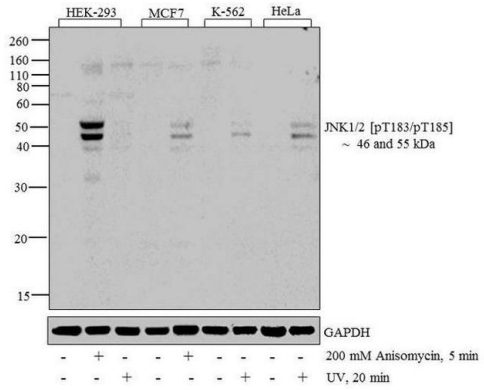
Product Specific Information

This antibody is reactive to human and rat JNK1&2. Other species of JNK1&2 have not been tested, and JNK3 (found primarily in neuronal cell lines) has not been detected. The antibody has been negatively preadsorbed using a non-phosphopeptide corresponding to the site of phosphorylation to remove antibody that is reactive with non-phosphorylated JNK1&2. The final product is generated by affinity chromatography using a JNK1&2-derived peptide that is phosphorylated at threonine 183 and tyrosine 185. Positive controls used: HEK 293 +/- UV irradiation treatment; PC12 cells +/- sorbitol.

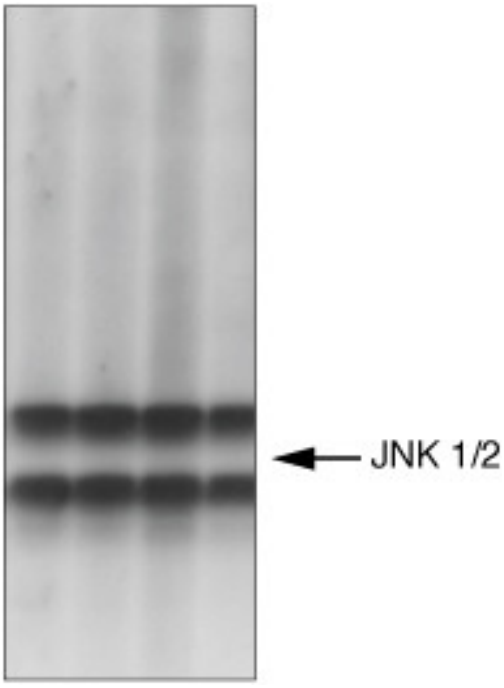
Product Images For Phospho-JNK1/JNK2 (Thr183, Tyr185) Polyclonal Antibody



Phospho-JNK1/JNK2 (Thr183, Tyr185) Antibody (44-682G)
Detection of altered subcellular localization of the target protein upon cell treatment demonstrates antibody specificity. IF using anti- JNK1/2 [pT183/pT185] Rabbit polyclonal Antibody (Product # 44-682G), shows translocation of phospho JNK1/2(pT183/pT185) to nucleus upon treatment with Anisomycin in A549 cells. {TM}



Phospho-JNK1/JNK2 (Thr183, Tyr185) Antibody (44-682G) in WB
Western blot analysis of JNK1 + JNK2 (pT183 + pT185) was performed by loading 20 µg of HEK-293 (lane1), HEK-293 treated for 5 minutes with 200 mM of Anisomycin (lane2), HEK-293 treated for 20 minutes with UV (lane3), MCF7 (lane4), MCF7 treated for 5 minutes with 200 mM of Anisomycin (lane5), K562 (lane6), K562 treated for 20 minutes with UV (lane7), HeLa (lane8) and HeLa treated for 20 minutes with UV (lane9) cell lysate using Novex®NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX), XCell SureLock Electrophoresis System (Product # EI0002), Novex® Sharp Pre-Stained Protein Standard (LC5800), and iBlot® Dry Blotting System (IB21001). Proteins were transferred to a nitrocellulose membrane and blocked with 5% skim milk for 1 hour at room temperature. JNK1 + JNK2 (pT183 + pT185) was detected at ~ 46 and 55 kDa using JNK1 + JNK2 (pT183 + pT185) Rabbit Polyclonal Antibody (Product # 44-682G) at 1:1000 dilution in 5% skim milk at 4°C overnight on a rocking platform. Goat Anti-Rabbit IgG - HRP Secondary Antibody (G21234) at 1:5000 dilution was used and chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



Phospho-JNK1/JNK2 (Thr183, Tyr185) Antibody (44-682G) in WB
Western blot analysis. JNK (pTpY183/185) phosphospecific antibody. 293 and PC12 cells were untreated or treated with either UV light or sorbitol, respectively. Western Blots were performed using either JNK (pTpY183/185) (Product # 44-682G) or p38 (pTpY180/182) (Product # 44-684G) primary antibodies. Anti-rabbit secondary antibody conjugated to Alexa fluor 680 was used for detection. Data was analyzed on the LI-COR Odyssey® Infrared Imaging System. JNK (pTpY183 /185): Lane 1 - 293 control; 5 µg; Lane 2 - 293 + UV, 5 µg; Lane 3 - PC12 control, 20 µg; Lane 4 - PC12 + sorbitol, 20 µg. p38 (pTpY180/182): Lane 6 - 293 control, 5 µg; Lane 7 - 293 + UV, 5 µg. (Product # 44-682G)

View more figures on thermofisher.com

59 References

Western Blot (48)

Translational research : the journal of laboratory and clinical medicine

Repurposing gestrinone for tumor suppressor through P21 reduction regulated by JNK in gynecological cancer.

"44-682G was used in Western Blotting to prove that gestrinone has the potential to protect against cancer through regulation of the JNK-P21 axis."

Authors: Ciou HH,Lee TH,Wang HC,Ding YR,Tseng CJ,Wang PH,Tsai MH,Tzeng SL

Year 2022

Species Human

Dilution 1:2000

International journal of inflammation

Caveolin-1 Scaffolding Domain Peptide Regulates Colon Endothelial Cell Survival through JNK Pathway.

"Published figure using Phospho-JNK1/JNK2 (Thr183, Tyr185) polyclonal antibody (Product # 44-682G) in Western Blot"

Authors: Fang K,Kevil CG

Year 2022

Species Human

View more WB references on thermofisher.com

Immunohistochemistry (4)

PloS one

Airway epithelial specific deletion of Jun-N-terminal kinase 1 attenuates pulmonary fibrosis in two independent mouse models.

"Published figure using Phospho-JNK1/JNK2 (Thr183, Tyr185) polyclonal antibody (Product # 44-682G) in Immunohistochemistry"

Authors: van der Velden JL,Alcorn JF,Chapman DG,Lundblad LKA,Irvin CG,Davis RJ,Butnor K,Janssen-Heininger YMW

Year 2020

Species Human

The Journal of investigative dermatology

Upregulated RIP3 Expression Potentiates MLKL Phosphorylation-Mediated Programmed Necrosis in Toxic Epidermal Necrolysis.

"44-682G was used in western blot to evaluate the role of RIP3 in toxic epidermal necrolysis."

Authors: Kim SK,Kim WJ,Yoon JH,Ji JH,Morgan MJ,Cho H,Kim YC,Kim YS

Year 2015

Species Human

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More applications with references on thermofisher.com

IHC (P) (1) ICC/IF (2) IP (1) Misc (3)