

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

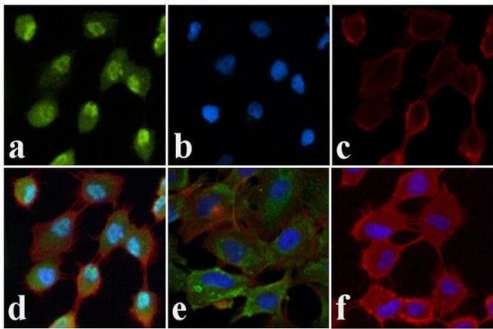
Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Pig, Insect, Non-human primate, Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	The antiserum was produced against a chemically synthesized phosphopeptide derived 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

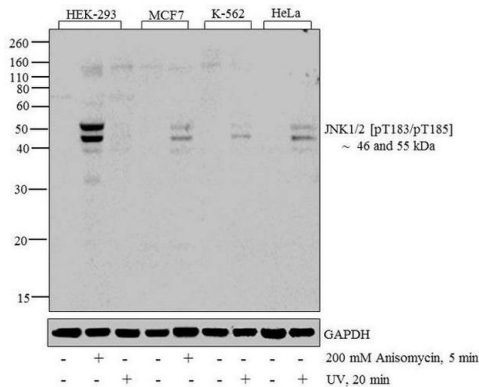
This antibody is reactive to human and rat JNK1&2. Other species of JNK1&2 have not been tested, and JNK3 (found primarily in neuronal cell lines) has not been detected. The antibody has been negatively preadsorbed using a non-phosphopeptide corresponding to the site of phosphorylation to remove antibody 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



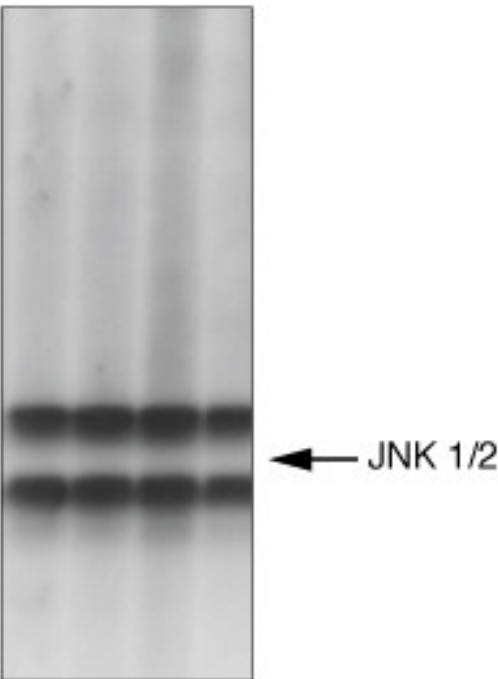
Phospho-JNK1/JNK2 (Thr183, Tyr185) Antibody (44-682G)

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](https://thermofisher.com)

## Western Blot (48)

<p><b>Translational research : the journal of laboratory and clinical medicine</b></p> <p><b>Repurposing gestrinone for tumor suppressor through P21 reduction regulated by JNK in gynecological cancer.</b></p> <p>"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."</p> <p>Authors: Ciou HH, Lee TH, Wang HC, Ding YR, Tseng CJ, Wang PH, Tsai MH, Tzeng SL</p>	<p><b>Year</b> 2022</p> <p><b>Species</b> Human</p> <p><b>Dilution</b> 1:2000</p>
<p><b>International journal of inflammation</b></p> <p><b>Caveolin-1 Scaffolding Domain Peptide Regulates Colon Endothelial Cell Survival through JNK Pathway.</b></p> <p>"44-682G was used in Western Blot to investigate modulation of VEGF and JNK signalling pathways in endothelial colon tissue for treatment of different diseases."</p> <p>Authors: Fang K, Kevil CG</p>	<p><b>Year</b> 2022</p> <p><b>Species</b> Human</p>

[View more WB references on thermofisher.com](#)

## Immunohistochemistry (4)

<p><b>PloS one</b></p> <p><b>Airway epithelial specific deletion of Jun-N-terminal kinase 1 attenuates pulmonary fibrosis in two independent mouse models.</b></p> <p>"44-682G was used in Immunohistochemistry to demonstrate prominent activation of JNK in bronchial epithelia using the mouse models of bleomycin- or AdTGF1- induce fibrosis."</p> <p>Authors: van der Velden JL, Alcorn JF, Chapman DG, Lundblad LKA, Irvin CG, Davis RJ, Butnor K, Janssen-Heininger YMW</p>	<p><b>Year</b> 2020</p> <p><b>Species</b> Human</p>
<p><b>The Journal of investigative dermatology</b></p> <p><b>Upregulated RIP3 Expression Potentiates MLKL Phosphorylation-Mediated Programmed Necrosis in Toxic Epidermal Necrolysis.</b></p> <p>"44-682G was used in western blot to evaluate the role of RIP3 in toxic epidermal necrolysis."</p> <p>Authors: Kim SK, Kim WJ, Yoon JH, Ji JH, Morgan MJ, Cho H, Kim YC, Kim YS</p>	<p><b>Year</b> 2015</p> <p><b>Species</b> Human</p>

[View more IHC references on thermofisher.com](#)

## More applications with references on thermofisher.com

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

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.