

Phospho-JAK2 (Tyr1007, Tyr1008) Recombinant Polyclonal Antibody (18HCLC)

| Product Details | |
|--------------------|--|
| Size | 100 µg |
| Species Reactivity | Human |
| Published Species | Rat |
| Host/Isotype | Rabbit / IgG |
| Expression system | Expi293 |
| Class | Recombinant Polyclonal |
| Type | Antibody |
| Clone | 18HCLC |
| Conjugate | Unconjugated |
| Immunogen | Peptide corresponding to Human JAK2 (aa 1004-1012) |
| Form | Liquid |
| Concentration | 0.5 mg/mL |
| Purification | Protein A |
| Storage buffer | PBS, pH 7.2 |
| Contains | 0.09% sodium azide |
| Storage conditions | Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles. |
| RRID | AB_2610161 |

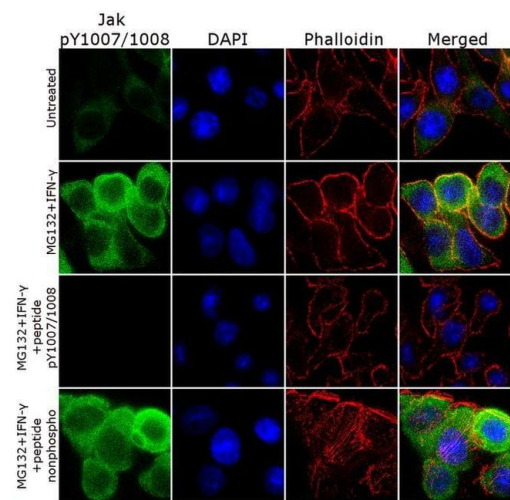
| Applications | Tested Dilution | Publications |
|------------------------------|-----------------|----------------|
| Western Blot (WB) | 1-2 µg/mL | 2 Publications |
| Immunocytochemistry (ICC/IF) | 2 µg/mL | - |

Product Specific Information

This antibody is predicted to react with Monkey, Pig, Sheep and Bovine.

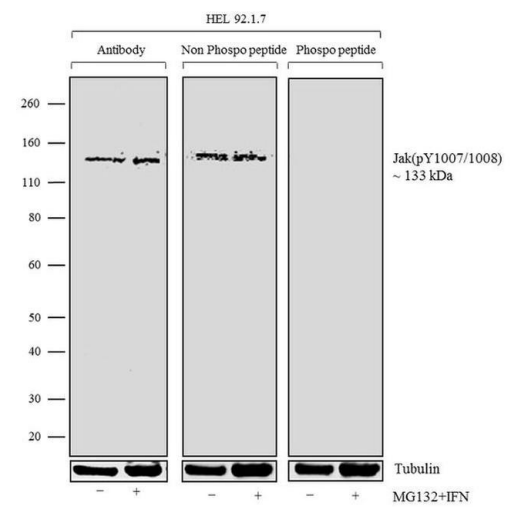
Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds - the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - all delivered with the consistency only found in a recombinant antibody. While functionally the same as a polyclonal antibody - recognizing multiple epitope sites on the target and producing higher detection sensitivity for low abundance targets - a recombinant rabbit polyclonal antibody has a known mixture of light and heavy chains. The exact population can be produced in every lot, circumventing the biological variability typically associated with polyclonal antibody production.

Product Images For Phospho-JAK2 (Tyr1007, Tyr1008) Recombinant Polyclonal Antibody (18HCLC)



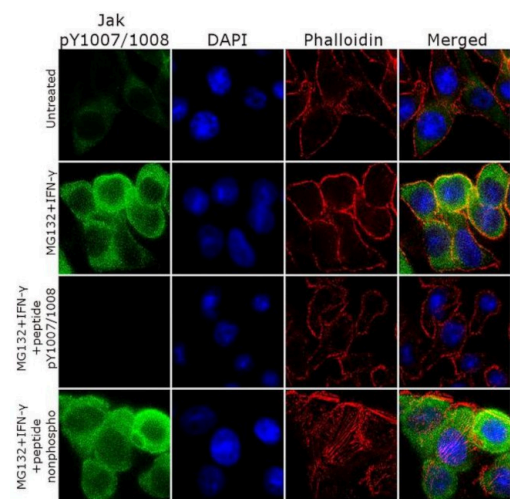
Phospho-JAK2 (Tyr1007, Tyr1008) Antibody (710928)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Immunofluorescence of Phospho-JAK2 (Tyr1007, Tyr1008) using Anti-Phospho-JAK2 (Tyr1007, Tyr1008) Recombinant Rabbit Polyclonal Antibody (Product # 710928), shows increased expression of Phospho-JAK2 (Tyr1007, Tyr1008) in HT-29 cells upon MG132 + IFN gamma treatment. {TM}



Phospho-JAK2 (Tyr1007, Tyr1008) Antibody (710928) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of HEL 92.1.7 (1) and HEL 92.1.7 treated with MG132 (20 uM, 1 hour) followed by IFN-gamma (100 ng, 15 min) (2). The blots were probed with Anti-Jak (pY1007/1008) Recombinant Rabbit Polyclonal Antibody (Product # 710928, 1-2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 131 kDa band corresponding to Jak (pY1007/1008) was observed. To confirm the specificity of Anti-Jak (pY1007/1008) Recombinant Rabbit Polyclonal Antibody, competition was performed with the non-phosphopeptide (10 µg/mL) and phosphopeptide (10 µg/mL) as shown in the corresponding blot on the right and extrme right respectively. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10% Bis-Tris gel (Product # NP0301BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with overnight wet transfer system. The membrane was probed with the relevant primary and secondary Antibody following blocking with 5% skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).



Phospho-JAK2 (Tyr1007, Tyr1008) Antibody (710928) in ICC/IF

For immunofluorescence analysis HT-29 cells were fixed and permeabilized for detection of Jak (pY1007/1008) using Jak (pY1007/1008) Recombinant Rabbit Polyclonal Antibody (Product # 710928, 2 µg/mL) and labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Nuclei (blue) were stained using SlowFade® Gold Antifade Mountant with DAPI (Product # S36938), and Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300) was used for cytoskeletal F-actin (red) staining. Detection and localization of Jak (pY1007/1008) (green) in the cytoplasmic can be clearly observed in cells treated with MG132 (20 uM, 1 hr) and IFN-gamma (100 ng, 15 min) as compared to untreated cells. Antibody specificity was demonstrated by competition with the Jak (pY1007/1008) peptide, which results in loss of signal. No competition was observed with the non-phospho peptide.

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Western Blot (2)

Phytotherapy research : PTR

Xanthotoxin and umbelliferone attenuate cognitive dysfunction in a streptozotocin-induced rat model of sporadic Alzheimer's disease: The role of JAK2/STAT3 and Nrf2/HO-1 signalling pathway modulation.

"710928 was used in Western Blotting to study the neuroprotective effects of anthotoxin and umbelliferone in streptozotocin (STZ)-induced cognitive dysfunction in rats and describe that the effect may be attributed to the inhibition of acetylcholinesterase and the attenuation of oxidative stress, neuroinflammation and neuronal loss."

Authors: Hindam MO,Sayed RH,Skalicka-Woniak K,Budzyska B,El Sayed NS

Year
2020

Species
Rat

Dilution
1:1000

Molecular medicine reports

ATMJAKPDL1 signaling pathway inhibition decreases EMT and metastasis of androgenindependent prostate cancer.

"Published figure using Phospho-JAK2 (Tyr1007, Tyr1008) recombinant polyclonal antibody (Product # 710928) in Western Blot"

Authors: Zhang L,Xu LJ,Zhu J,Li J,Xue BX,Gao J,Sun CY,Zang YC,Zhou YB,Yang DR,Shan YX

Year
2018

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