

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

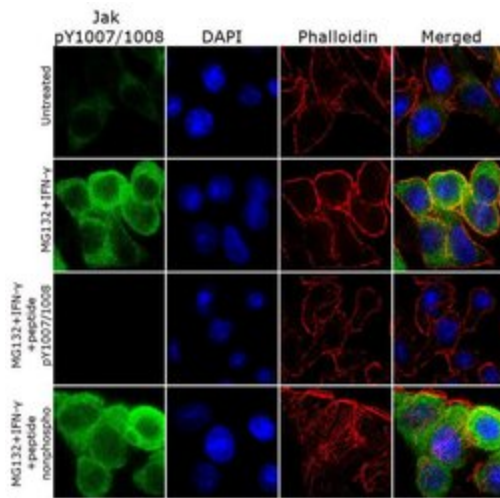
Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotope	Rabbit / IgG
Class	Recombinant Polyclonal
Type	Antibody
Clone	18HCLC
Conjugate	Unconjugated
Immunogen	Peptide corresponding to Human JAK2 (aa 1004-1012)
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 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
Immunocytochemistry (ICC)	2 µg/mL	-
Immunofluorescence (IF)	2 µg/mL	-
Western Blot (WB)	1-2 µg/mL	1 Publication

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.

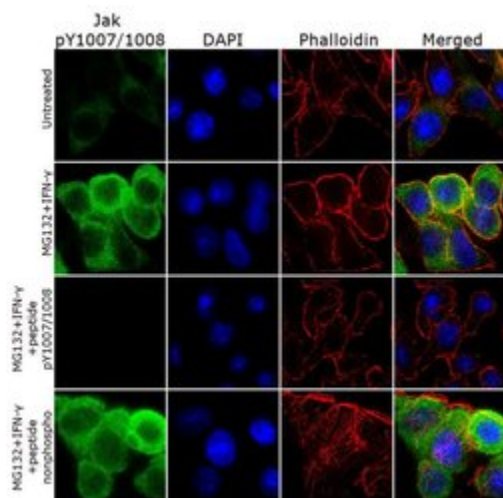
Advanced Verification Data



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. Cell treatment validation info.

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

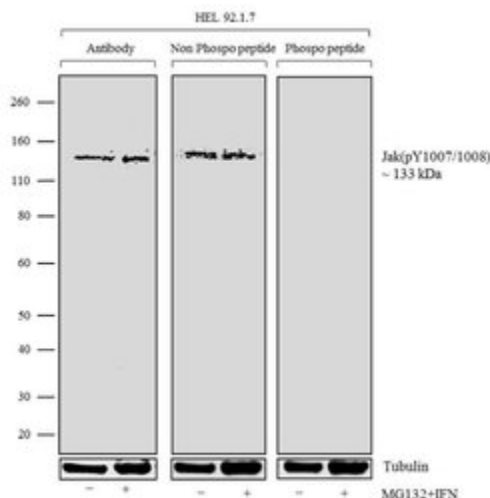


Phospho-JAK2 (Tyr1007, Tyr1008) Antibody (710928) in IF

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 (H+L) 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 µM, 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.

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 µM, 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 (H+L) 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 extreme 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).



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Western Blot (1)

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"

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Species
Not Applicable

Dilution
Not Cited

Year
2018

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