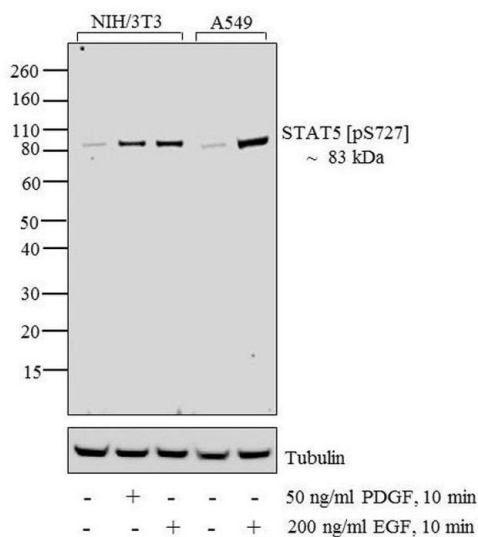


Phospho-STAT3 (Ser727) Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic phosphopeptide from human STAT3 containing serine 727. This region is conserved between human, mouse and rat.
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_2533645

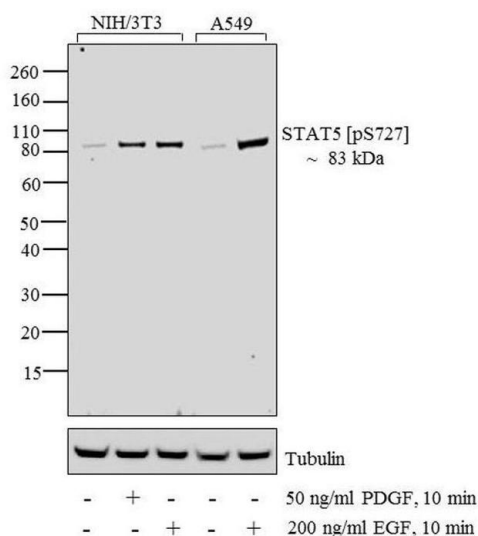
Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	13 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:100	-
Immunocytochemistry (ICC/IF)	-	1 Publication
Immunoprecipitation (IP)	-	1 Publication
ChIP assay (ChIP)	10 µL	-

Product Images For Phospho-STAT3 (Ser727) Polyclonal Antibody



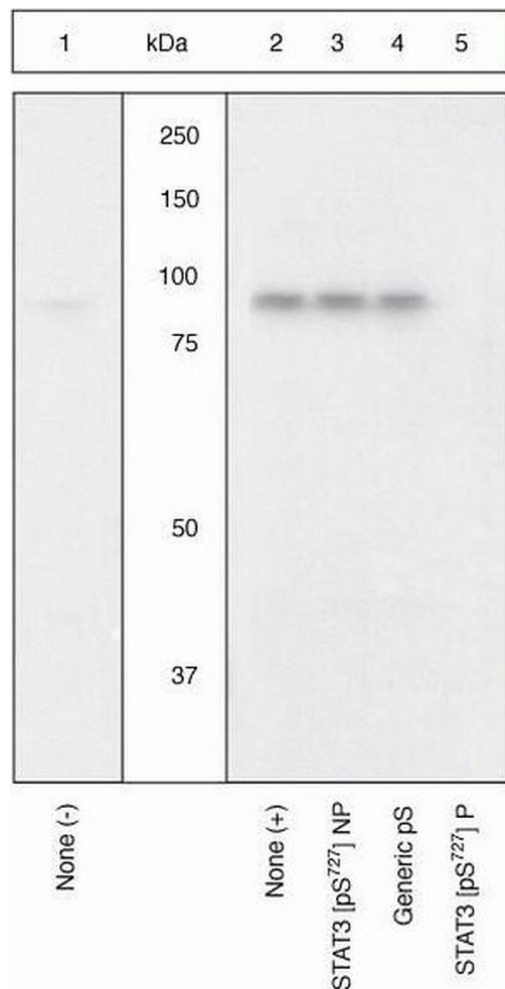
Phospho-STAT3 (Ser727) Antibody (44-384G)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot of Phospho-STAT3 (Ser727) using anti-STAT3 [pS727] Rabbit Polyclonal Antibody (Product # 44-384G), shows increase in expression Phospho-STAT3 (Ser727) in NIH/3T3 cells treated with PDGF and A549 cells treated with EGF. {TM}



Phospho-STAT3 (Ser727) Antibody (44-384G) in WB

Western blot analysis of STAT3 [pS727] was performed by loading 20 µg of NIH /3T3 (lane1), NIH/3T3 treated for 10 minutes with 50 ng/mL of PDGF (lane2), NIH /3T3 treated for 10 minutes with 200 ng/mL of EGF (lane3), A549 (lane4) and A549 treated for 10 minutes with 200 ng/mL of EGF (lane5) cell lysate using Novex® NuPAGE® 4-12 % Bis-Tris gel (NP0322BOX), XCell SureLock Electrophoresis System (EI0002), Novex® Sharp Pre-Stained Protein Standard (LC5800), and iBlot® 2 Dry Blotting System (IB21001). Proteins were transferred to a nitrocellulose membrane and blocked with 5% skim milk for 1 hour at room temperature. STAT3 [pS727] was detected at ~83 kDa using STAT3 [pS727] Rabbit Polyclonal Antibody (44384G) 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-STAT3 (Ser727) Antibody (44-384G) in WB

Extracts prepared from 3T3L1 cells stimulated with LIF were resolved by SDS-PAGE on a 10% polyacrylamide gel and transferred to PVDF. Membranes were blocked with a 5% BSA-TBST buffer overnight at 4°C, then were incubated with STAT3 [pS727] antibody (Product # 44-384G) for two hours at room temperature in a 1% BSA-TBST buffer, following prior incubation with: no peptide (1), the non-phosphopeptide corresponding to the immunogen (2), a generic phosphoserine-containing peptide (3), or, the phosphopeptide immunogen (4). After washing, membranes were incubated with goat F(ab')₂ anti-rabbit IgG HRP-conjugate (Product # ALI4404) and bands were detected using the Pierce SuperSignal™ method. The data show that only the peptide corresponding to STAT3 [pS727] blocks the antibody signal, demonstrating the specificity of the antibody.

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Western Blot (13)

Experimental and therapeutic medicine	Year 2023
Remifentanyl modulates the TLR4mediated MMP9/TIMP1 balance and NFB/STAT3 signaling in LPSinduced A549 cells.	Species Human
"44-384G was used in Western Blotting to show that remifentanyl downregulated TLR4 to reduce MMP-9/TIMP1 imbalance to inhibit inflammatory dysfunction in LPS-treated A549 cells, by regulating NF-B/STAT3 signaling."	Dilution 1:1000
Authors: Chang J,Zhang W	
Biochemical pharmacology	Year 2020
Correction of arginine metabolism with sepiapterin-the precursor of nitric oxide synthase cofactor BH₄-induces immunostimulatory-shift of breast cancer.	Species Human
"44-384G was used in Western Blotting to reveal that supplementing sepiapterin normalizes arginine metabolism, improves the immunogenicity and inhibits the growth of breast tumor cells."	
Authors: Zheng X,Fernando V,Sharma V,Walia Y,Letson J,Furuta S	

View more WB references on thermofisher.com

Immunohistochemistry (1)

PloS one	Year 2009
Early-onset and robust amyloid pathology in a new homozygous mouse model of Alzheimer's disease.	Species Mouse
Authors: Willuweit A,Velden J,Godemann R,Manook A,Jetzek F,Tintrup H,Kauselmann G,Zevnik B,Henriksen G,Drzezga A,Pohlner J,Schoor M,Kemp JA,von der Kammer H	

Immunocytochemistry (1)

The Journal of experimental medicine	Year 2011
Guanylate binding protein 1 is a novel effector of EGFR-driven invasion in glioblastoma.	Species Human
Authors: Li M,Mukasa A,Inda MM,Zhang J,Chin L,Cavenee W,Furnari F	

More applications with references on thermofisher.com

IP (1)

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