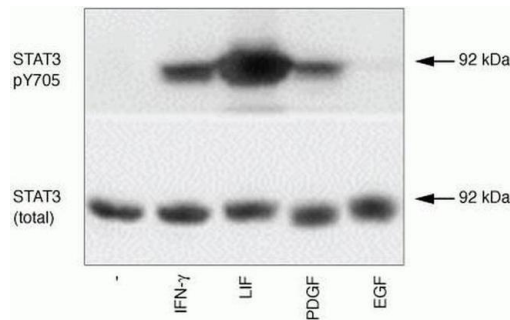


# Phospho-STAT3 (Tyr705) Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	The antiserum was produced against a chemically synthesized phosphorylated peptide derived from the region of human STAT3 that contains tyrosine 705. The sequence is conserved in mouse and rat.
Form	Liquid
Purification	Antigen affinity chromatography
Storage buffer	Dulbecco's PBS, pH 7.3, with 50% glycerol, 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20°C
RRID	AB_2533643

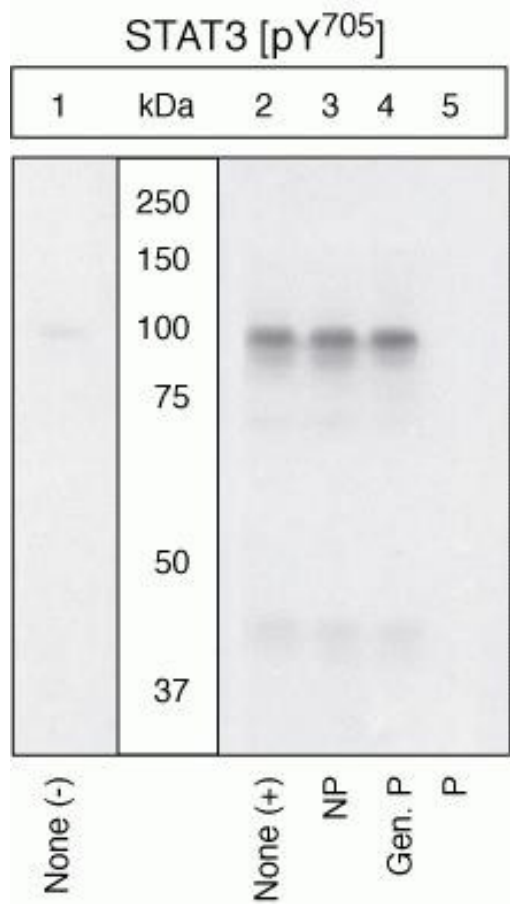
Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	11 Publications

Product Images For Phospho-STAT3 (Tyr705) Polyclonal Antibody



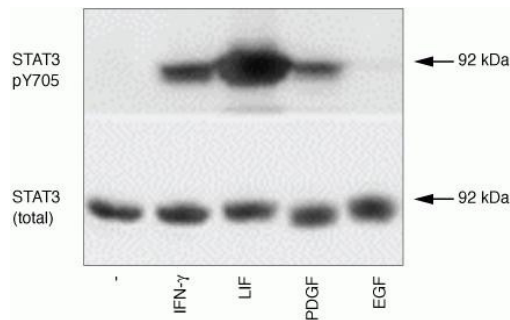
Phospho-STAT3 (Tyr705) Antibody (44-380G)

Modulation of expression of target protein by cell treatment to demonstrate antibody specificity. Western blot analysis of STAT3 (pY705) using Phospho-STAT3 (Tyr705) Antibody (Product # 44-380G) shows specific phosphorylation of STAT3 (pY705) in 3T3-L1 cells treated with IFN-gamma, LIF or PDGF. {TM}



Phospho-STAT3 (Tyr705) Antibody (44-380G) in WB

Peptide Competition. Extracts of 3T3L1 cells unstimulated (1) or stimulated with 20 ng/mL LIF for 10 minutes (2-5) were resolved by SDS-PAGE on a 10% Tris-glycine gel and transferred to PVDF. The membrane was blocked with a 5% BSA-TBST buffer overnight at 4°C, then incubated with the STAT3 (pY705) antibody for two hours at room temperature in a 1% BSA-TBST buffer, following prior incubation with: no peptide (1, 5), the phosphopeptide immunogen (2), a generic phosphotyrosine-containing peptide (3), or the non-phosphorylated peptide corresponding to the phosphopeptide immunogen (4). After washing, the membrane was incubated with goat F (ab')<sub>2</sub> anti-rabbit IgG HRP-conjugate (Product # ALI4404) and signals were detected using the Pierce SuperSignal™ method. The data show that only the phosphopeptide corresponding to STAT3 (pY705) blocks the antibody signal, demonstrating the specificity of the antibody. The data also show the induction of STAT3 (pY705) phosphorylation by the addition of LIF in this cell system.



Phospho-STAT3 (Tyr705) Antibody (44-380G) in WB

STAT3 (pY705) (human) phosphospecific antibody. 3T3-L1 cells were stimulated to show specific phosphorylation at tyrosine 705 with IFN, LIF, or PDGF stimulation (upper panel). Pan STAT3 (Product # 44-364G) is used to show consistent presence of STAT3.

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Western Blot (11)

<p>Frontiers in molecular biosciences</p> <p><b>RAC3 Promotes Proliferation, Migration and Invasion via PYCR1/JAK /STAT Signaling in Bladder Cancer.</b></p> <p>"44-380G was used in Western Blotting to demonstrate that RAC3 overexpression activated JAK/STAT signaling via PYCR1 axis."</p> <p>Authors: Cheng C,Song D,Wu Y,Liu B</p>	<p>Year 2022</p> <p>Species Human</p> <p>Dilution 1:500</p>
<p>Life (Basel, Switzerland)</p> <p><b>Identification and Characterization of a New Splicing Variant of Prokineticin 2.</b></p> <p>"Published figure using Phospho-STAT3 (Tyr705) polyclonal antibody (Product # 44-380G) in Western Blot"</p> <p>Authors: Lattanzi R,Maftei D,Vincenzi M,Fullone MR,Miele R</p>	<p>Year 2022</p>

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