

Phospho-STAT3 (Ser727) Recombinant Rabbit Monoclonal Antibody (2A9)

Product Details

Size	100 µL
Species Reactivity	Human, Mouse
Host/Isotype	Rabbit / IgG
Expression system	HEK293 cells
Class	Recombinant Monoclonal
Type	Antibody
Clone	2A9
Conjugate	Unconjugated
Immunogen	A synthesized peptide derived from human Phospho-STAT3 (S727)
Form	Liquid
Concentration	1.5 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4, with 50% glycerol
Contains	0.02% sodium azide
Storage conditions	-20°C or -80°C if preferred
RRID	AB_2812015

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:5,000	-
Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:200	-
Immunocytochemistry (ICC/IF)	1:100	-
ELISA (ELISA)	Assay-Dependent	-
Immunoprecipitation (IP)	1:200-1:1,000	-

Product Images For Phospho-STAT3 (Ser727) Recombinant Rabbit Monoclonal Antibody (2A9)

Phospho-STAT3 (Ser727) Antibody (MA5-33199) in WB

Western blot was performed using Anti-Phospho-STAT3 (Ser727) Recombinant Rabbit Monoclonal Antibody (Product # MA5-33199) and a 80 kDa band corresponding to Signal transducer and activator of transcription 3 was observed in HT-29 and NIH/3T3 cells and was either induced (in A549) or increased upon treatment (in HT-29 and NIH/3T3) except PC-3 which is a negative cell line. Modified whole cell extracts (1% SDS) (30 µg lysate) of A549 (Lane 1), A549 treated with EGF (100 ng/mL for 30 minutes) (Lane 2), PC-3 (Lane 3), PC-3 treated with EGF (100 ng/mL for 30 minutes) (Lane 4), HT-29 (Lane 5), HT-29 arrested in mitosis by treatment with Thymidine (2mM, 4 hours) followed by Nocodazole treatment (100 ng/mL for 24 hours) (Lane 6), NIH/3T3 (Lane 7) and NIH/3T3 treated with PDGF-AA (50 ng/mL for 30 minutes) (Lane 8) were electrophoresed using NuPAGE™ 10% Bis-Tris Protein Gel (Product # NP0302BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).

Phospho-STAT3 (Ser727) Antibody (MA5-33199)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines owing to their inherent genetic constitution. Relative expression of Signal transducer and activator of transcription 3 was induced in A549 and increased in HT-29 and NIH/3T3 upon treatment but not in PC-3 which is reported to be a negative cell line using Anti-Phospho-STAT3 (Ser727) Recombinant Rabbit Monoclonal Antibody (Product # MA5-33199) in Western Blot. {RE}

Phospho-STAT3 (Ser727) Antibody (MA5-33199)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot using Phospho-STAT3 (Ser727) Recombinant Rabbit Monoclonal Antibody (Product # MA5-33199), shows induction of proteins in A549 on EGF treatment and increased expression of proteins in HT-29 and NIH /3T3 on Nocodazole and PDGF-AA treatments respectively except PC-3 which is a negative cell line. {TM}

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