Product Datasheet

STAT3 Antibody (9D8) NBP2-22471

Unit Size: 100 uL

Store at -20C. Avoid freeze-thaw cycles.



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NBP2-22471

STAT3 Antibody (9D8)

Product Information	
Unit Size	100 uL
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	9D8
Preservative	0.05% Sodium Azide
Isotype	IgG2a
Purity	Protein A purified
Buffer	PBS with 1 mg/ml BSA
Product Description	
Host	Mouse
Gene ID	6774
Gene Symbol	STAT3
Species	Human, Mouse, Rat, Primate, Monkey
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
Immunogen	Residues 655-770 from human recombinant protein expressed in bacteria
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), Knockdown Validated
Recommended Dilutions	Western Blot 1:5000, Immunohistochemistry 1:1600, Immunocytochemistry/ Immunofluorescence 1:100, Immunoprecipitation 2 ug, Immunohistochemistry- Paraffin 1:1600, Chromatin Immunoprecipitation (ChIP) 1-3 ul, Knockdown Validated
Application Notes	WB from verified customer review.
Images	

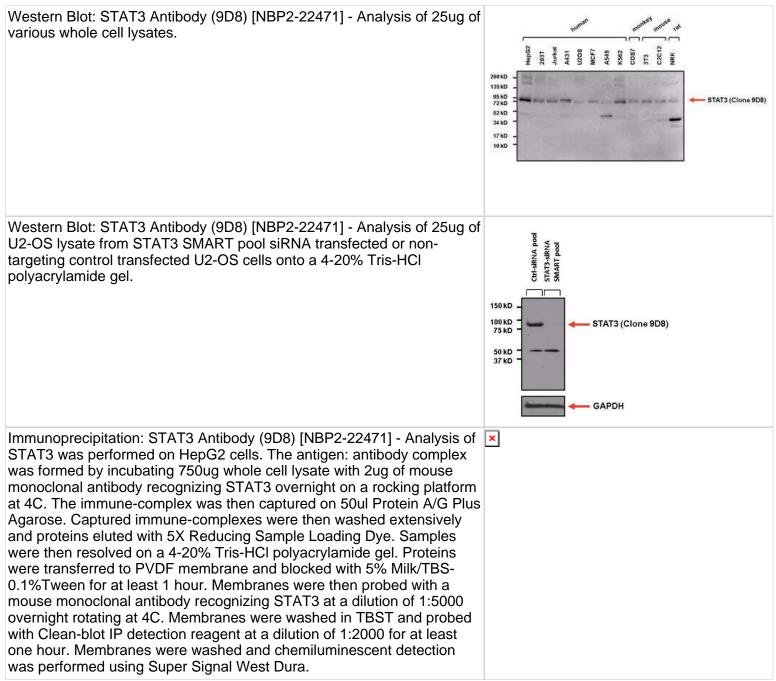
Western Blot: STAT3 Antibody (9D8) [NBP2-22471] - Human breast p-Stat3 at Y705 cancer cell MDA-MB-231 was treated with carboplatin for 72 hours and the expression of p-Stat3 at Y705 and total Stat3 were detected by western blot. From verified customer review. Stat3

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Immunocytochemistry/Immunofluorescence: STAT3 Antibody (9D8) STAT3 (Clone 9D8) Del jobr 488 Hooths [NBP2-22471] - Analysis of STAT3 using anti-STAT3 (9D8) monoclonal antibody (shown in green) in HeLa cells. Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature. Cells were then blocked with 1% Blocker BSA for 15 minutes at room temperature. Cells were probed with a mouse monoclonal antibody recognizing STAT3, at a dilution of 1:100 for at least 1 hour at room temperature. Cells were then washed with PBS and incubated with DyLight 488 goat-anti-mouse secondary antibody at a dilution of 1:400 for 30 minutes at room temperature. Nuclei (blue) were stained with Hoechst 33342 dve. Immunohistochemistry-Paraffin: STAT3 Antibody (9D8) [NBP2-22471] -Biopsies of normal and cancer tissues. Colon Cance Chromatin Immunoprecipitation: STAT3 Antibody (9D8) [NBP2-22471] -Exon28 Exon1 Analysis performed using cross-linked chromatin from rat hepatoma cells Rat Lamci treated with insulin. IP performed using a multiplex microplate Matrix ChIP assay with STAT3 monoclonal antibody. Chromatin aliquots from cells were used per ChIP pull-down. Quantitative PCR data done in 127, 967 bp quadruplicate using 1ul of DNA in 2ul SYBR real-time PCR reactions Exon 1 Exon 28 Aatrix ChIP (Fraction input) containing primers to amplify exon-1 or exon-28 of LAMC1.Quantitation 0.250 of immunoprecipitated chromatin is presented as signal relative to the 0.200 total amount of input chromatin. Results represent the mean +/- SEM for 0.150 three experiments. A schematic representation of the rat LAMC1 locus is shown; boxes represent exons (black boxes = translated regions, white 0.100 boxes = untranslated regions), the zigzag line represents an intron, and 0.050 the straight line represents upstream sequence. Regions amplified by 0.000 LAMC1 primers are represented by black bars. Data courtesy of the 10 30 10 Innovators Program. Insulin (min) Western Blot: STAT3 Antibody (9D8) [NBP2-22471] - Analysis of 25ug 260 kD HepG2 total lysate. 135 kD STAT3 (Clone 9D8) 95 kD 72 kD 52 kD 42 kD 34 kD 26 kD

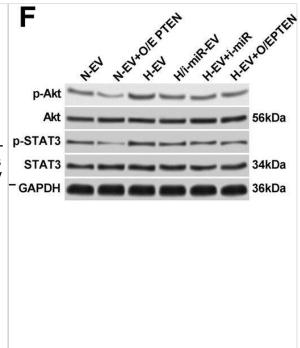






Page 4 of 5 v.20.1 Updated 10/23/2024

N-EV & H-EV treatment promote macrophage M2 polarization by delivering miR-21-5p that targets PTEN. a, western blot analysis of PTEN protein expression level in induced macrophages. H/i-miR-EV, monocytes were induced with the presence of EV secreted by miR-21-5p-inhibited, hypoxia pre-challenged MSCs; H-EV + i-miR, monocytes were transfected with miR-21-5p inhibitor-expressing vector before induction with the presence of H-EV. Macrophages induced without MSC-EV were used as negative control (NC). b, c, flow cytometry determining the percentage of CD163+CD206+ cells among total CD68+ cells after induction. N-EV + O/E PTEN or H-EV + O/E PTEN, monocytes were transfected with PTEN overexpressing vector before N-EV or H-EV treatment, respectively. d-f, western blot detecting Akt & STAT3 protein expression as well as their activating phosphorylation (p-Ser473 for Akt & p-tyr705 for STAT3) in macrophages after induction. g-i, ELISA evaluating IL-10, TGF- β & VEGF- α in macrophage culture medium after induction. Macrophages induced with the presence of N-EV were used as negative control in b-i. Tukey's test was used for statistical analysis. *, p < 0.05; **, p < 0.01; ***, p < 0.001; ****, p < 0.0001 Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/30736829), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Zuo Q, Yang Y, Lyu Y, Yang C, Chen C, Salman S, Huang T, Wicks E, Jackson W, Datan E, Qin W, Semenza G Plexin-B3 expression stimulates MET signaling, breast cancer stem cell specification, and lung metastasis. Cell Rep, 2023-02-28;42(3):112164. 2023-02-28 [PMID: 36857181]

Wareham LK, Echevarria FD, Sousa JL et al. Interleukin-6 promotes microtubule stability in axons via Stat3 proteinprotein interactions iScience 2021-10-22 [PMID: 34646984]

Olszewska B, Zawrocki A, Lakomy J et al. Mapping signal transducer and activator of transcription (STAT) activity in different stages of mycosis fungoides and Sezary syndrome Int. J. Dermatol. 2020-07-08 [PMID: 32643174]

Slawinska M, Lakomy J, Biernat W et al. STAT3, STAT5A, STAT5B, STAT6 proteins are overexpressed in human basal cell carcinoma Clin. Exp. Dermatol. 2019-07-19 [PMID: 31323143] (IF/IHC, Human)

Ren W, Hou J, Yang C et al. Extracellular vesicles secreted by hypoxia pre-challenged mesenchymal stem cells promote non-small cell lung cancer cell growth and mobility as well as macrophage M2 polarization via miR-21-5p delivery J. Exp. Clin. Cancer Res. 2019-02-08 [PMID: 30736829] (WB, Human)





Novus Biologicals USA

10730 E. Briarwood Avenue Centennial, CO 80112 USA Phone: 303.730.1950 Toll Free: 1.888.506.6887 Fax: 303.730.1966 nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave Toronto, ON M8Z 4E6 Canada Phone: 905.827.6400 Toll Free: 855.668.8722 Fax: 905.827.6402 canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB, United Kingdom Phone: (44) (0) 1235 529449 Free Phone: 0800 37 34 15 Fax: (44) (0) 1235 533420 info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com Technical Support: nb-technical@biotechne.com Orders: nb-customerservice@bio-techne.com General: novus@novusbio.com

Products Related to NBP2-22471

Goat anti-Mouse IgG Secondary Antibody [HRP]
Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
Mouse IgG2a Isotype Control (M2A)
Recombinant Human STAT3 GST (N-Term) Protein

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