Product Datasheet

STAT6 Antibody (177C322.1) - BSA Free
NBP2-25241

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Publications: 4

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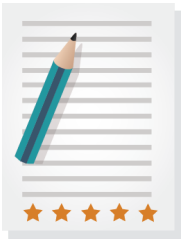
Updated 1/28/2025 v.20.1



NBP2-25241

STAT6 Antibody (177C322.1) - BSA Free

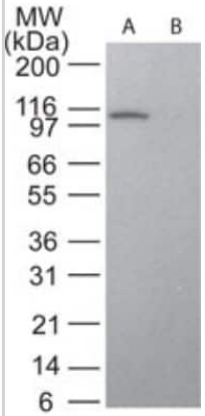
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	177C322.1
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS

Product Description	
Host	Mouse
Gene ID	6778
Gene Symbol	STAT6
Species	Human, Mouse
Immunogen	A portion of amino acids 600-650 of human Signal Transducer and Activator of Transcription 6 was used as the immunogen for the STAT6 Antibody (177C322.1).

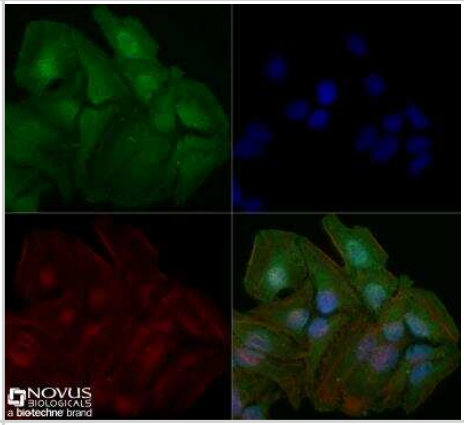
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
Recommended Dilutions	Western Blot 1-2 ug/ml, Immunocytochemistry/ Immunofluorescence 5 ug/ml, Immunoprecipitation 1-2 ug/ml

Images

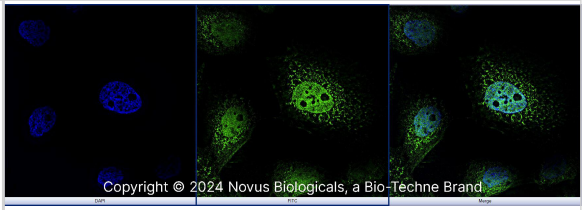
Western Blot: STAT6 Antibody (177C322.1) [NBP2-25241] - Analysis of STAT6 in HeLa lysate in the A) absence and B) presence of immunizing peptide using STAT6 antibody at 2 ug/ml. anti mouse Ig HRP secondary antibody and ECL substrate were used for this test.



Immunocytochemistry/Immunofluorescence: STAT6 Antibody (177C322.1) [NBP2-25241] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with anti-STAT6 (177C322.1) at 5 ug/ml overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:500 dilution. Actin was detected with Phalloidin 568 (Red) at a 1:200 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



STAT6 (177C322.1) was detected in immersion fixed A431 human skin carcinoma cell line using Mouse anti- STAT6 (177C322.1) Protein-G purified Monoclonal Antibody conjugated to Alexa Fluor® 488 (Catalog # NBP2-25241AF488) (green) at 10 µg/mL overnight at 4C. Cells were counterstained with DAPI (blue). Cells were imaged using a 100X objective and digitally deconvolved.



Publications

Knosp C A, Carroll H P et al. SOCS2 regulates T helper type 2 differentiation and the generation of type 2 allergic responses. J Exp Med 2011-04-07 [PMID: 21646394] (WB, Mouse)

Bortolotti D, Gentili V, Caselli E et al. DNA Sensors Signaling in NK Cells During HHV-6A, HHV-6B and HHV-7 Infection Front. Microbiol. 2020-02-19 [PMID: 32140147] (WB, Human)

Thieu VT, Nguyen ET, McCarthy BP et al. IL-4-stimulated NF-kappaB activity is required for Stat6 DNA binding. J Leukoc Biol. 2007 Aug [PMID: 17513694] (WB)

Details:
WB: Fig 5A (Nuclear extracts from B220+ primary mouse spenocytes), Fig 5B (Whole cell extracts from B220+ primary mouse splenocytes), Fig 6A (nuclear extracts from purified primary mouse B cells).

Ricardo-Gonzalez RR, Red Eagle A, Odegaard JI et al. IL-4/STAT6 immune axis regulates peripheral nutrient metabolism and insulin sensitivity. Proc Natl Acad Sci U S A. 2010 Dec 28 [PMID: 21149710] (WB)

Details:
WB: Fig 1A (mouse liver, muscle, adipose tissue), Fig 1B (primary heptaocytes from wildtype (WT) and STAT6 knockout mice). The antibody was used at 0.5 ug/ml. Note: The specificity of the 177C322 mAb clone for STAT6 was validated in WT/knockout mice by WB

Procedures

Western Blot Protocol for STAT6 Antibody (NBP2-25241)
Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 10-25 ug of total protein per lane.
2. Transfer proteins to PVDF membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain the membrane with Ponceau S (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot TBS -0.05% Tween 20 (TBST).
5. Block the membrane in 5% Non-fat milk in TBST (blocking buffer) for at least 1 hour.
6. Wash the membrane in TBST three times for 10 minutes each.
7. Dilute primary antibody in blocking buffer and incubate overnight at 4C with gentle rocking.
8. Wash the membrane in TBST three times for 10 minutes each.
9. Incubate the membrane in diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) for 1 hour at room temperature.
10. Wash the blot in TBST three times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturer's instructions.

Immunocytochemistry/ Immunofluorescence Protocol for STAT6 Antibody (NBP2-25241)
Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and wash the cells briefly in PBS. Add 10% formalin to the dish and fix at room temperature for 10 minutes.
2. Remove the formalin and wash the cells in PBS.
3. Permeablize the cells with 0.1% Triton X100 or other suitable detergent for 10 min.
4. Remove the permeablization buffer and wash three times for 10 minutes each in PBS. Be sure to not let the specimen dry out.
5. To block nonspecific antibody binding, incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
6. Add primary antibody at appropriate dilution and incubate overnight at 4C.
7. Remove primary antibody and replace with PBS. Wash three times for 10 minutes each.
8. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
9. Remove secondary antibody and replace with PBS. Wash three times for 10 minutes each.
10. Counter stain DNA with DAPi if required.

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@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP2-25241

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP2-25241AF488	STAT6 Antibody (177C322.1) [Alexa Fluor® 488]

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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