

Product Datasheet

NFkB p105/p50 Antibody (2J10D7) - BSA Free NB100-56583

Unit Size: 0.1 mg

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

www.novusbio.com



technical@novusbio.com

Reviews: 1 Publications: 5

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB100-56583

Updated 2/11/2026 v.20.1

**Earn rewards for product
reviews and publications.**

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NB100-56583



NB100-56583

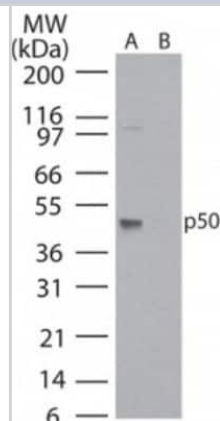
NFkB p105/p50 Antibody (2J10D7) - BSA Free

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	2J10D7
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS
Product Description	
Description	Novus Biologicals Knockout (KO) Validated Mouse NFkB p105/p50 Antibody (2J10D7) - BSA Free (NB100-56583) is a monoclonal antibody validated for use in IHC, WB, Flow and Simple Western. Anti-NFkB p105/p50 Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	4790
Gene Symbol	NFKB1
Species	Human, Rat, Rabbit
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Mouse (86%), Rat (86%). Rat reactivity reported in scientific literature (PMID:31850807).
Immunogen	A portion of amino acids 150-200 of human NF-kB (p50) was used as the immunogen.
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Flow Cytometry, Immunohistochemistry, Knockout Validated
Recommended Dilutions	Western Blot 2-5 ug/ml, Simple Western 1:10 - 1:250, Flow Cytometry, Immunohistochemistry 1:100 - 1:200, Immunohistochemistry-Paraffin 1:100 - 1:200, Knockout Validated
Application Notes	See Simple Western Antibody Database for Simple Western validation: Tested in HeLa Lysate, separated by Size, antibody dilution of 1:10, 1:50, 1:250, apparent MW was 56, 126 kDa

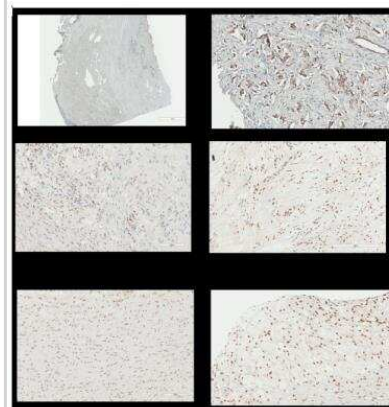


Images

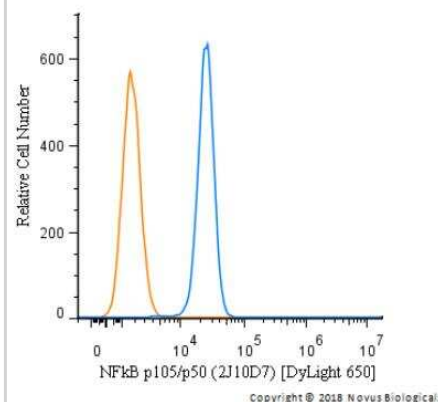
Western Blot: NFkB p105/p50 Antibody (2J10D7) [NB100-56583] - Analysis of p50 in HeLa lysate in the A) absence and B) presence of immunizing peptide using p50 antibody at 5 ug/ml.



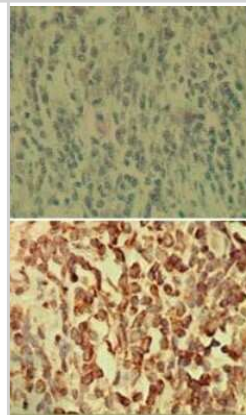
Immunohistochemistry-Paraffin: NFkB p105/p50 Antibody (2J10D7) [NB100-56583] - IHC-P of rabbit aorta using NB100-56583. Secondary antibody: anti-mouse histofine (Nisherei Bioscience Inc. ref: 414131F). Development: DAB (Dako ref: K346811-2) and counterstained with Hematoxylin. Submitted via verified customer review



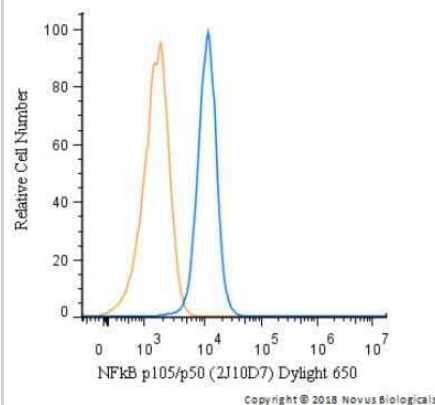
Flow Cytometry: NFkB p105/p50 Antibody (2J10D7) [NB100-56583] - An intracellular stain was performed on U937 cells with NFkB p105/p50 [2J10D7] Antibody NB100-56583C (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to DyLight 650.



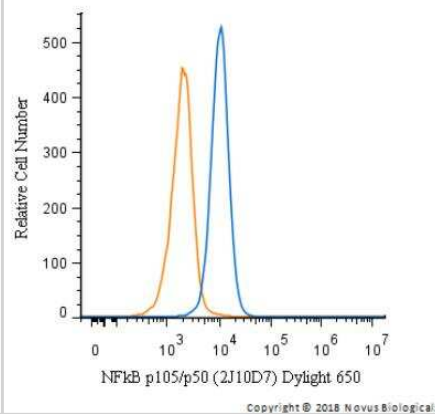
Immunohistochemistry-Paraffin: NFkB p105/p50 Antibody (2J10D7) [NB100-56583] - analysis of human breast tumor tissue using an isotype control antibody (top) and p50 antibody (bottom) at 5 ug/ml.



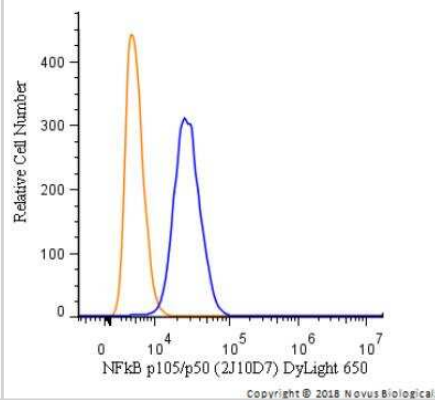
Flow Cytometry: NFkB p105/p50 Antibody (2J10D7) [NB100-56583] - An intracellular stain was performed on Jurkat cells with NFkB p105/p50 Antibody (2J10D7) NB100-56583C (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes. Both antibodies were conjugated to DyLight 650.



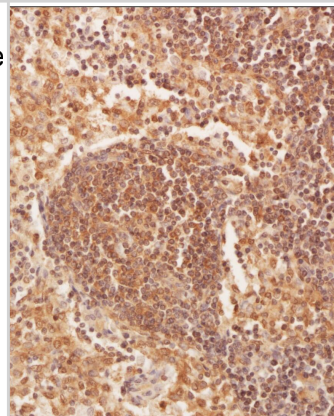
Flow Cytometry: NFkB p105/p50 Antibody (2J10D7) [NB100-56583] - An intracellular stain was performed on HeLa cells with NFkB p105/p50 Antibody (2J10D7) NB100-56583C (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes. Both antibodies were conjugated to DyLight 650.



Flow Cytometry: NFkB p105/p50 Antibody (2J10D7) [NB100-56583] - An intracellular stain was performed on U2-OS cells with NFkB p105/p50 [2J10D7] Antibody NB100-56583C (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to DyLight 650.



Immunohistochemistry-Paraffin: NFkB p105/p50 Antibody (2J10D7) [NB100-56583] - Analysis of a FFPE tissue section of human lymph node using 1:200 dilution of NFkB p105/p50 (2J10D7) antibody. The staining was developed using HRP labeled anti-mouse secondary antibody and DAB reagent, and nuclei of cells were counter-stained with hematoxylin.



Publications

Apriawan T, Widjiati W, Utomo DN et al. Periosteum-induced ossification effect in skull defect through interleukin-8 and NF-kappa B pathway: An experimental study with *Oryctolagus cuniculus* rabbits Surgical neurology international 2022-04-15 [PMID: 35509533] (IF/IHC, Rabbit)

Sikorski K, Mehta A et al. A high-throughput pipeline for validation of antibodies. Nat Methods 2018-01-11 [PMID: 30377371] (Human)

Details:

Antibody validation based on denaturing gel electrophoresis of biotinylated cell lysates (PAGE) followed by mass spectrometry (MS) and antibody array analysis (MAP).

Kurt B, Ozleyen A, Antika G et al. Multitarget Profiling of a Strigolactone Analogue for Early Events of Alzheimer's Disease: In Vitro Therapeutic Activities against Neuroinflammation ACS Chem Neurosci 2020-02-19 [PMID: 32017526]

Duran Y, Karaboga I Effect of hesperetin on systemic inflammation and hepatic injury after blunt chest trauma in rats Biotech Histochem 2019-12-18 [PMID: 31850807] (IF/IHC, Rat)

Santhi WS, Sebastian P, Varghese BT et al. NF-kappaB and COX-2 during oral tumorigenesis and in assessment of minimal residual disease in surgical margins. Exp Mol Pathol. 2006-10-01 [PMID: 16822500]

Details:

Products used (human): 1. IκBa [IMG-127A]: IHC paraffin (normal oral mucosa, leukoplakia, and oral cancer), Fig. 1 IHC paraffin analysis (normal oral mucosa, leukoplakia, and oral cancer), Fig. 2 IHC paraffin (oral cancer: primary tumor, surgical margin,



Procedures

Immunohistochemistry-Paraffin Protocol for NFkB p105/p50 Antibody (NB100-56583)

Immunohistochemistry-Paraffin Embedded Sections

Antigen Unmasking:

Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes (keep slides in the sodium citrate buffer at all times).

Staining:

1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in PBS for 5 minutes.
3. Block each section with 100-400 ul blocking solution (1% BSA in PBS) for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4 C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul HRP polymer conjugated secondary antibody. Incubate 30 minutes at room temperature.
7. Wash sections three times in wash buffer for 5 minutes each.
8. Add 100-400 ul DAB substrate to each section and monitor staining closely.
9. As soon as the sections develop, immerse slides in deionized water.
10. Counterstain sections in hematoxylin.
11. Wash sections in deionized water two times for 5 minutes each.
12. Dehydrate sections.
13. Mount coverslips.

Western Blot Protocol for NFkB p105/p50 Antibody (NB100-56583)

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.



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 NB100-56583

NB800-PC1	HeLa Whole Cell Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NB100-56583

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

