

Product Datasheet

CD3 Antibody (SP7) NB600-1441

Unit Size: 0.5 ml

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

www.novusbio.com



technical@novusbio.com

Reviews: 3 **Publications: 50**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB600-1441

Updated 9/9/2025 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/NB600-1441



NB600-1441

CD3 Antibody (SP7)

Product Information	
Unit Size	0.5 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	SP7
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Tissue culture supernatant
Buffer	Tissue culture supernatant
Target Molecular Weight	23.1 kDa

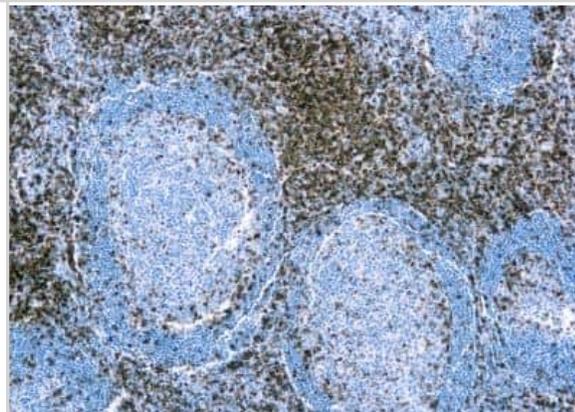
Product Description	
Description	Novus Biologicals Rabbit CD3 Antibody (SP7) (NB600-1441) is a monoclonal antibody validated for use in IHC, WB, Flow and ICC/IF. Anti-CD3 Antibody: Cited in 47 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	916
Gene Symbol	CD3E
Species	Human, Mouse, Porcine, Canine
Reactivity Notes	Use in Mouse reported in scientific literature (PMID:35111697). Canine reactivity per customer review. Use in Porcine reported in scientific literature (PMID:33839961)
Specificity/Sensitivity	The CD3 antigen is present on early thymocytes and mature T cells and is generally regarded as a pan-T cell marker. This antibody will help detect CD3 expression in normal and neoplastic tissues. This antibody reacts with the intracytoplasmic portion of the CD3 antigen expressed by T cells. It stains human T cells in both the cortex and medulla of the thymus and in peripheral lymphoid tissues. This antibody is suitable for staining normal and neoplastic T cells in formalin-fixed, paraffin-embedded tissues.
Immunogen	This CD3 antibody was developed against a synthetic peptide: KAKAKPVTRGAGA, corresponding to amino acids 156-168 of Human CD3 epsilon chain.

Product Application Details	
Applications	Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Knockdown Validated
Recommended Dilutions	Flow Cytometry, Immunohistochemistry 1:25-1:50, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin 1:25-1:50, Immunohistochemistry-Frozen 1:10 - 1:500, Knockdown Validated
Application Notes	IHC-P: recommended pretreatment of citrate buffer, pH 6.0. Recommended incubation time of 30-60 min at RT. Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID 29037255). Use in FLOW reported in scientific literature (PMID: 31079916).

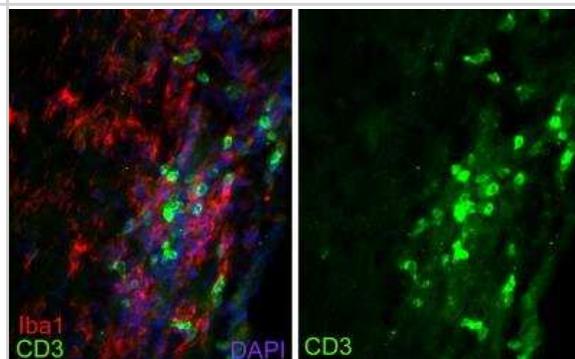


Images

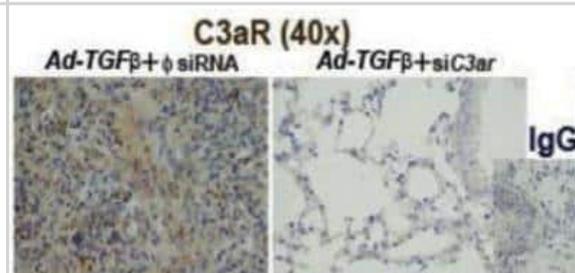
Immunohistochemistry-Paraffin: CD3 Antibody (SP7) [NB600-1441] - FFPE human tonsil stained with CD3 antibody.



Immunohistochemistry-Frozen: CD3 Antibody (SP7) [NB600-1441] - T-cells and microglia in mouse spinal cord with acute EAE. Mouse was perfused with 4% paraformaldehyde. Spinal cord was post-fixed overnight, followed by cryoprotection with 30% sucrose for 24h. Spinal cord sections were treated with antigen-retrieval buffer (pH 6.0) at 60C for 10 min, then cooled down to room temperature (this step should not be omitted). Anti-CD3 antibody was diluted at 1:200. Incubation: room temperature overnight. IHC-Fr image submitted by a verified customer review.



Immunohistochemistry-Paraffin: CD3 Antibody (SP7) [NB600-1441] - Mouse lung tissue stained against C3aR normal conditions (left) and knockdown conditions (right). IHC-P image submitted by a verified customer review.



Publications

Mao N, He C, Kuang J et al. Comprehensive proteomic and pathological profiling identifies PRAS40 as a novel biomarker and mediator of primary immune checkpoint blockade resistance in non-small cell lung cancer. *Cancer Immunology, Immunotherapy* : CII 2025-10-10 [PMID: 41071193]

Choi J, Zhang X, Li W et al. Dynamic Intestinal Stem Cell Plasticity and Lineage Remodeling by a Nutritional Environment Relevant to Human Risk for Tumorigenesis *Molecular Cancer Research* 2023-08-01 [PMID: 37097719] (Immunohistochemistry, Human)

Radke JR, Covert HJ, Bauer F et al. Adenovirus 14p1 Immunopathogenesis during Lung Infection in the Syrian Hamster *Viruses* 2020-05-30 [PMID: 32486177] (Immunohistochemistry, Human)

Monjazeb AM, Daly ME, Luxardi G et al. Atezolizumab plus stereotactic ablative radiotherapy for medically inoperable patients with early-stage non-small cell lung cancer: a multi-institutional phase I trial *Nat Commun* 2023-09-02 [PMID: 37658083] (Immunohistochemistry, Human)

Mauduit O, Delcroix V, Umazume T et al. Spatial transcriptomics of the lacrimal gland features macrophage activity and epithelium metabolism as key alterations during chronic inflammation *Frontiers in Immunology* 2022-10-17 [PMID: 36341342] (Immunohistochemistry, Human)

Li X, Karras P, Torres R, Rambow F et Al. Disseminated Melanoma Cells Transdifferentiate into Endothelial Cells in Intravascular Niches at Metastatic Sites *Cell Rep* 2020-06-20 [PMID: 32553158]

Swisa A, Kieckhaefer J, Daniel SG, El-Mekkoussi H et Al. The evolutionarily ancient FOXA transcription factors shape the murine gut microbiome via control of epithelial glycosylation *Dev Cell* 2024-05-31 [PMID: 38821056]

Yang X, Jiang S, Liu F et Al. HCMV IE1/IE1mut Therapeutic Vaccine Induces Tumor Regression via Intratumoral Tertiary Lymphoid Structure Formation and Peripheral Immunity Activation in Glioblastoma Multiforme *Mol Neurobiol* 2024-01-23 [PMID: 38261253]

Pilling D, Martinez TC, Gomer RH. et Al. Inhibition of CCl4-induced liver inflammation and fibrosis by a NEU3 inhibitor *PLoS One* 2024-11-21 [PMID: 39570922]

Duncan, GJ;Ingram, SD;Emberley, K;Hill, J;Cordano, C;Abdelhak, A;McCane, M;Jenks, JE;Jabassini, N;Ananth, K;Ferrara, SJ;Stedelin, B;Sivyer, B;Aicher, SA;Scanlan, TS;Watkins, TA;Mishra, A;Nelson, JW;Green, AJ;Emery, B; Remyelination protects neurons from DLK-mediated neurodegeneration. *Nature communications* 2024-10-23 [PMID: 39443516]

T Kaya, N Mattugini, L Liu, H Ji, L Cantuti-Ca, J Wu, M Schifferer, J Groh, R Martini, S Besson-Gir, S Kaji, A Liesz, O Gokce, M Simons CD8+ T cells induce interferon-responsive oligodendrocytes and microglia in white matter aging *Nature Neuroscience*, 2022-10-24;25(11):1446-1457. 2022-10-24 [PMID: 36280798]

Thuy T. Tran, Jasmine Caulfield, Lin Zhang, David Schoenfeld, Dijana Djureinovic, Veronica L. Chiang, Victor Oria, Sarah A. Weiss, Kelly Olino, Lucia B. Jilaveanu, Harriet M. Kluger Lenvatinib or anti-VEGF in combination with anti-PD-1 differentially augments antitumor activity in melanoma *JCI Insight* 2023-04-10 [PMID: 36821392]

More publications at <http://www.novusbio.com/NB600-1441>





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 NB600-1441

NB820-59272	Human Tonsil Whole Tissue Lysate (Adult Whole Normal)
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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/NB600-1441

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

