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.

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Reviews: 3 Publications: 44

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
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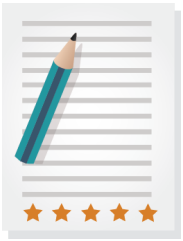
Updated 7/23/2024 v.20.1



NB600-1441

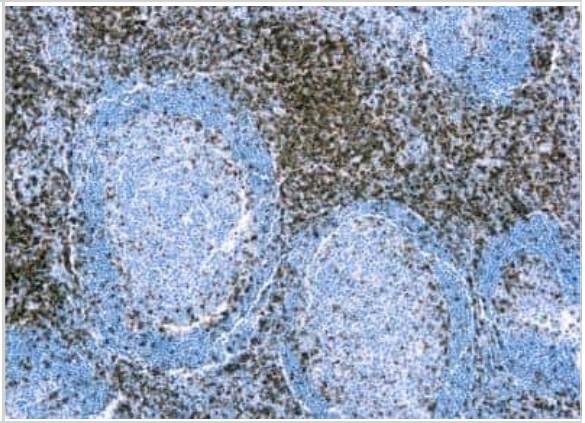
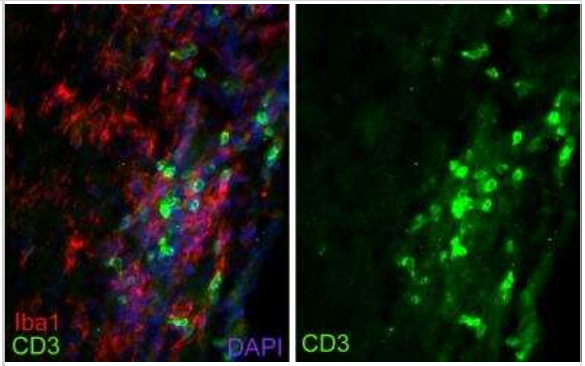
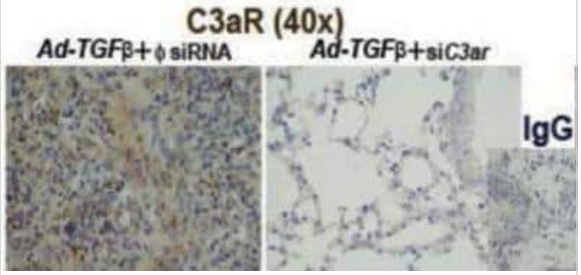
CD3 Antibody (SP7)

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	
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	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, 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

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]

Rochelle Fletcher, Jingshan Tong, Denise Risnik, Brian Leibowitz, Yi-Jun Wang, Fernando Concha-Benavente, Jonathan M. DeLiberty, Donna B. Stolz, Reet K. Pai, Robert L. Ferris, Robert E. Schoen, Jian Yu, Lin Zhang Non-steroidal anti-inflammatory drugs induce immunogenic cell death in suppressing colorectal tumorigenesis Oncogene 2021-02-05 [PMID: 33603166]

Nguyen TT, Pham DV, Park J et al. Engineering of hybrid spheroids of mesenchymal stem cells and drug depots for immunomodulating effect in islet xenotransplantation Science advances 2022-08-26 [PMID: 36001671]

Details:
Dilutions: 1:300

Yam A Immune Mechanisms of Microbial Cancer Therapy Thesis 2023-01-01

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] (B/N)

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] (IHC)

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

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] (IHC)

Chen X, Firulyova M, Manis M et al. Microglia-mediated T cell infiltration drives neurodegeneration in tauopathy Nature 2023-03-01 [PMID: 36890231]

Fukushima H, Furusawa A, Kato T et al. Intratumoral interleukin-15 improves efficacy of near-infrared photoimmunotherapy Molecular cancer therapeutics 2023-07-18 [PMID: 37461129]

Delcroix V, Mauduit O, Lee H et al. The First Transcriptomic Atlas of the Adult Lacrimal Gland Reveals Epithelial Complexity and Identifies Novel Progenitor Cells in Mice Cells 2023-05-21 [PMID: 37408269] (WB, Mouse)

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

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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.

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