

# Product Datasheet

## CD8 Antibody (12.C7) - BSA Free NB100-64021

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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Updated 2/21/2025 v.20.1

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**NB100-64021**

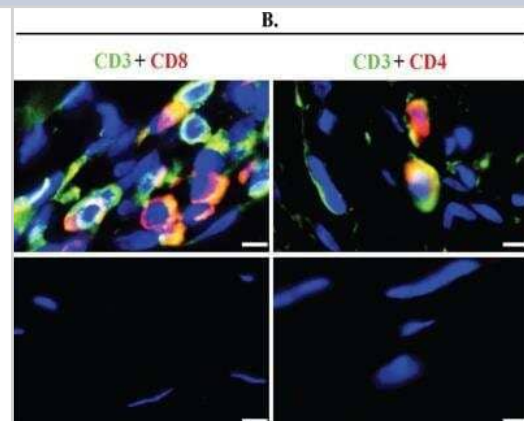
CD8 Antibody (12.C7) - BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	12.C7
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein A purified
<b>Buffer</b>	PBS
<b>Target Molecular Weight</b>	26 kDa
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	925
<b>Gene Symbol</b>	CD8A
<b>Species</b>	Rabbit
<b>Specificity/Sensitivity</b>	CD8 Antibody (12.C7) recognizes the rabbit CD8 cell surface antigen, expressed by a subset of T lymphocytes with cytotoxic/suppressor activity.
<b>Immunogen</b>	CD8 Antibody (12.C7) was developed against Rabbit CD8
<b>Product Application Details</b>	
<b>Applications</b>	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Flow Cytometry 1:100-1:200, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500
<b>Application Notes</b>	Successful use in ICC/IF, IHC reported in scientific literature (PMID: 22796166).

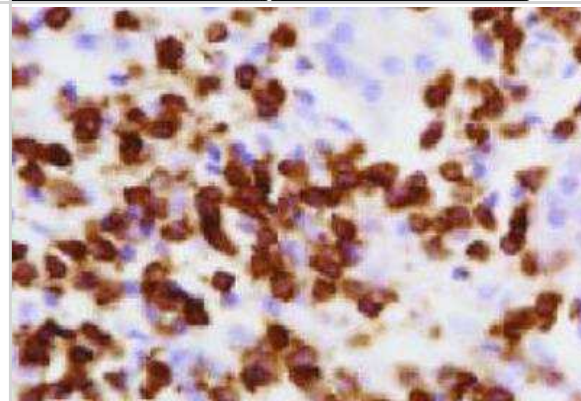


## Images

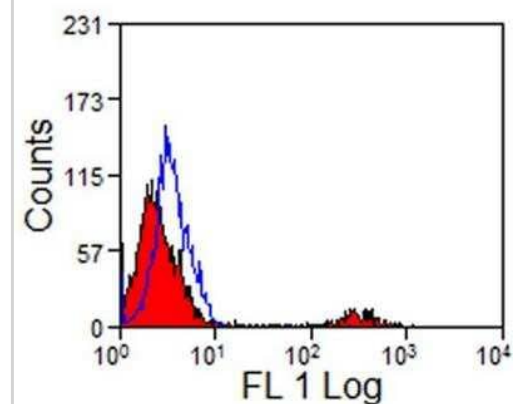
Immunohistochemistry: CD8 Antibody (12.C7) [NB100-64021] - scAAV8G9-optHLA-G Combo Prevents Cornea Burn-induced Vascularization and Cytotoxic T-cell Infiltration. Rabbit cornea sections were acquired 60 days following the injection of indicated vectors into burn corneas and stained for an endothelial cell marker (CD31), T cell markers, transgene abundance, and  $\alpha$ -SMA in the indicated treatment groups. Scale bars=5 $\mu$ m. Image collected and cropped by CiteAb from the following publication ([nature.com/articles/s41598-017-18002-9](https://www.nature.com/articles/s41598-017-18002-9)), licensed under a CC-BY license.



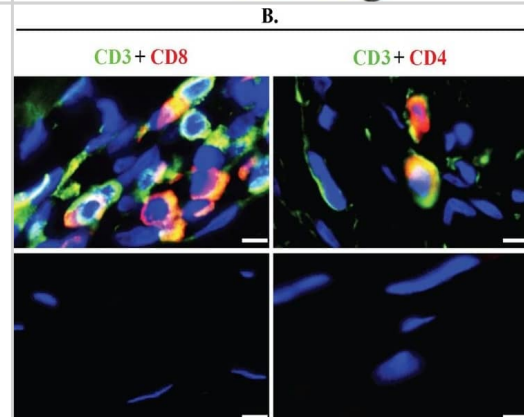
Immunohistochemistry-Paraffin: CD8 Antibody (12.C7) [NB100-64021] - Human bile duct cancer tissue. IHC-P image submitted by a verified customer review.



Flow Cytometry: CD8 alpha Antibody (12.C7) [NB100-64021] - Rabbit peripheral blood lymphocytes stained with Mouse anti Rabbit CD8 Alpha followed by Goat anti Mouse IgG (H/L):FITC



scAAV8G9-optHLA-G Combo Prevents Cornea Burn-induced Vascularization and Cytotoxic T-cell Infiltration. Rabbit cornea sections were acquired 60 days following the injection of indicated vectors into burn corneas and stained for an endothelial cell marker (CD31), T cell markers, transgene abundance, and  $\alpha$ SMA in the indicated treatment groups. Scale bars = (A) 10  $\mu$ m, (B) 5  $\mu$ m, (C) 20  $\mu$ m, (D) 200  $\mu$ m.



## Publications

Gilger BC, Hasegawa T, Sutton RB et Al. A chimeric anti-vascularization immunomodulator prevents high-risk corneal transplantation rejection via ex vivo gene therapy Mol Ther 2024-11-07 [PMID: 39245940]

Lv P, Chen H, Cheng H et al. A Calcium Alginate Hydrogel Microsphere Based Transcatheter Arterial Viroembolization Strategy for Hepatocellular Carcinoma Advanced Therapeutics 2023-01-02 (FLOW)

Kolloli A, Kumar R, Singh P et al. Aggregation state of Mycobacterium tuberculosis impacts host immunity and augments pulmonary disease pathology Commun Biol 2021-11-03 [PMID: 34732811] (ICC/IF, Rabbit)

Lin CY, Lin KJ, Li KC et al. Lin CY, Lin KJ, Li KC et al. Immune responses during healing of massive segmental femoral bone defects mediated by hybrid baculovirus-engineered ASCs [PMID: 22796166] (IF/IHC, Rabbit)

### Details:

Rabbit femoral sections underwent immunohistochemical analysis with antibodies, including NB100-64021, to investigate the efficacy of recombinant Baculovirus vectors for gene therapy of diseased or damaged bone.

Tsenova L, Fallows D, Kolloli A et Al. Inoculum size and traits of the infecting clinical strain define the protection level against Mycobacterium tuberculosis infection in a rabbit model Eur J Immunol. [PMID: 32130727] (ICC/IF, Rabbit)

Hirsch ML, Conatser LM, Smith SM et al. AAV vector-mediated expression of HLA-G reduces injury-induced corneal vascularization, immune cell infiltration, and fibrosis. Sci Rep 2017-12-19 [PMID: 29259248] (IHC-P, Rabbit)





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### **Products Related to NB100-64021**

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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)
NB100-64021AF488	CD8 Antibody (12.C7) [Alexa Fluor® 488]

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### **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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