

# Product Datasheet

## CD8 Antibody NBP2-29475

Unit Size: 0.1 mg

Store at 4C.

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**NBP2-29475**

CD8 Antibody

**Product Information**

<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	0.2 mg/ml
<b>Storage</b>	Store at 4C.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG Kappa
<b>Purity</b>	Protein A purified
<b>Buffer</b>	10 mM PBS, pH 7.4 with 0.05% BSA
<b>Target Molecular Weight</b>	32 kDa

**Product Description**

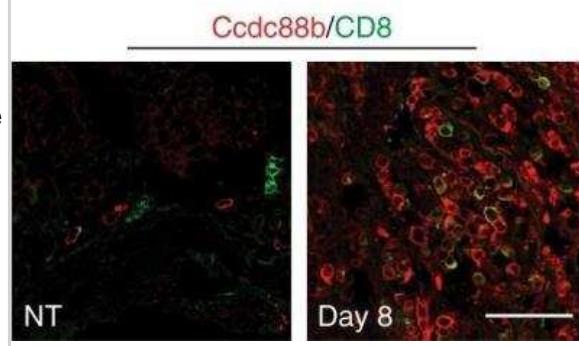
<b>Description</b>	200 ug/ml of antibody purified from rabbit anti-serum by Protein A chromatography. Supplied in 10 mM PBS, pH 7.4 with 0.05% BSA and 0.05% sodium azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-33122)  Antibody with azide - store at 2 to 8C.
<b>Host</b>	Rabbit
<b>Gene ID</b>	925
<b>Gene Symbol</b>	CD8A
<b>Species</b>	Human, Mouse, Porcine
<b>Reactivity Notes</b>	Mouse reactivity reported in scientific literature (PMID: 29030607). Use in Porcine reported in scientific literature (PMID:33839961)
<b>Marker</b>	Cytotoxic- & Suppressor T-Cell Marker
<b>Immunogen</b>	Recombinant fragment from human CD8 C-terminal cytoplasmic domain of alpha chain (exact sequence is proprietary). (Uniprot: P01732)

**Product Application Details**

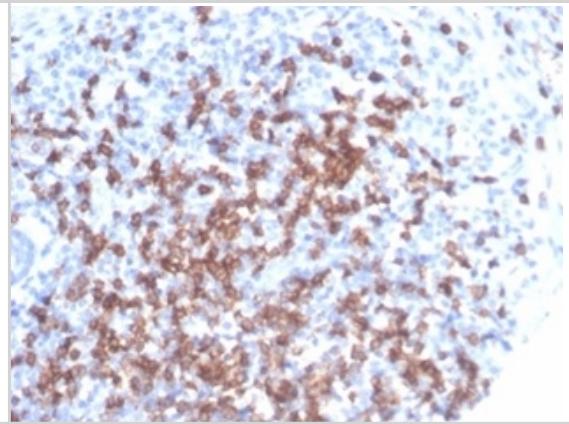
<b>Applications</b>	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1-2 ug/ml, Immunohistochemistry-Frozen
<b>Application Notes</b>	Use in Immunohistochemistry reported in scientific literature (PMID:33839961) Optimal dilution for a specific application should be determined. Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes.

## Images

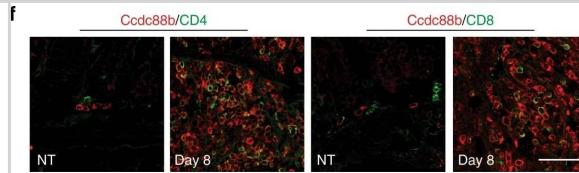
Immunohistochemistry-Frozen: CD8 Antibody [NBP2-29475] - Mouse Ccdc88b expression in colon during DSS-induced colitis. Wild type (WT) mice were either not treated (NT) or given 3% DSS for 5 days followed by 3 days of water. Representative confocal microscopy images of tissue sections from colon of NT or DSS-treated mice at day 8, and stained for Ccdc88b (red) and CD8 (green). Scale bars, 100 um. Image collected and cropped by CiteAb from the following publication ([//pubmed.ncbi.nlm.nih.gov/29030607/](https://pubmed.ncbi.nlm.nih.gov/29030607/)) licensed under a CC-BY license.



Formalin-fixed, paraffin-embedded human tonsil stained with CD8 antibody at 2ug/ml at RT. HIER: Tris/EDTA, pH9.0, 45min. Secondary: HRP-polymer, 30min. DAB, 5min.



Immunohistochemistry-Frozen: CD8 Antibody [NBP2-29475] - Mouse Ccdc88b expression in colon during DSS-induced colitis. Wild type (WT) mice were either not treated (NT) or given 3% DSS for 5 days followed by 3 days of water. a Ccdc88b mRNA expression in distal colons of NT (n = 3) or DSS-treated WT mice (n = 3 for each time point) at the indicated days. Data represent expression relative to hprt  $\pm$  SEM (n = 3). \*P < 0.05, \*\*P < 0.01 (two-tailed Student's t-test) & are representative of one experiment. b Representative immunoblots for Ccdc88b protein detected in extracts from distal colons from NT or DSS-treated WT & Ccdc88Bmut mutant mice at indicated time points, & densitometric quantification of Ccdc88b immunoblot normalized to  $\beta$ -actin  $\pm$  SEM (n = 3) (representative of one of two independent experiments); \*\*P < 0.01 (two-tailed Student's t-test). c Representative confocal microscopy images of tissue sections from colon of NT or DSS-treated mice at indicated times, & stained with antibodies against Ccdc88b (red), CD45 (green), & E-Cadherin (purple) & nuclei staining DAPI (blue). Scale bars, 100  $\mu$ m. d Representative FACS plots & quantification of lamina propria cells stained for CD45 & for Ccdc88b antibodies for NT (n = 3) & DSS-treated WT mice (n = 4 for each time point) at indicated time points, data are representative of one experiment. e Representative confocal microscopy images of tissue sections from colon of NT or DSS-treated mice at day 8, & stained for Ccdc88b (red), CD3 (green) & CD11b (green); nuclei are stained with DAPI (blue). Scale bars, 100  $\mu$ m. f same as in e for Ccdc88b (red), CD4 (green) & CD8 (green). Scale bars, 100  $\mu$ m. Image collected & cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41467-017-01381-y>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Dhanyalayam, D;Thangavel, H;Lizardo, K;Oswal, N;Dolgov, E;Perlin, D;Nagajyothi, J; Sex Differences in Cardiac Pathology of SARS-CoV2 Infected and Trypanosoma cruzi Co-infected Mice *Frontiers in Cardiovascular Medicine* [PMID: 35369283]

Eggenhuizen, PJ;Cheong, RMY;Lo, C;Chang, J;Ng, BH;Ting, YT;Monk, JA;Loh, KL;Broury, A;Tay, ESV;Shen, C;Zhong, Y;Lim, S;Chung, JX;Kandane-Rathnayake, R;Koelmeyer, R;Hoi, A;Chaudhry, A;Manzanillo, P;Snelgrove, SL;Morand, EF;Ooi, JD; Smith-specific regulatory T cells halt the progression of lupus nephritis *Nature communications* 2024-02-06 [PMID: 38321013]

Thangavel H, Dhanyalayam D, Lizardo K et al. Susceptibility of Fat Tissue to SARS-CoV-2 Infection in Female hACE2 Mouse Model *International Journal of Molecular Sciences* 2023-01-09 [PMID: 36674830] (Western Blot, Block/Neutralize)

Thangavel H, Lizardo K, Dhanyalayam D et al. Diets Differently Regulate Tumorigenesis in Young E0771 Syngeneic Breast Cancer Mouse Model *Journal of Clinical Medicine* 2023-01-04 [PMID: 36675341] (Western Blot)

Oswal N, Thangavel H, Lizardo K et al. Diets Differently Regulate Pulmonary Pathogenesis and Immune Signaling in Mice during Acute and Chronic *Mycobacterium tuberculosis* Infection *Life* (Basel, Switzerland) 2023-01-13 [PMID: 36676177] (IHC-P, Mouse)

Nicolas AM, Pesic M, Engel E et al. Inflammatory fibroblasts mediate resistance to neoadjuvant therapy in rectal cancer *Cancer cell* 2022-02-14 [PMID: 35120600] (IF/IHC)

Choi YW, Kim YH, Oh SY et al. Senescent Tumor Cells Build a Cytokine Shield in Colorectal Cancer *Advanced Science* 2021-01-04 [PMID: 33643790] (IF/IHC, Mouse)

Ji Y, Fan X, Zhang Y et al. Glycine regulates mucosal immunity and the intestinal microbial composition in weaned piglets *Amino acids* 2021-04-11 [PMID: 33839961] (IF/IHC, Porcine)

Mondal T, Shivange GN, Tihagam RG et al. Unexpected PD-L1 immune evasion mechanism in TNBC, ovarian, and other solid tumors by DR5 agonist antibodies *EMBO molecular medicine* 2021-02-15 [PMID: 33587338]

Byun JK, Park M, Lee S et al. Inhibition of Glutamine Utilization Synergizes with Immune Checkpoint Inhibitor to Promote Antitumor Immunity *J Virol* 2020-11-04 [PMID: 33159855]

Vieyra-Garcia P Pathophysiology of cutaneous T-cell lymphoma: Understanding of neoplastic Tcells and non-malignant infiltrate in lesional skin *Thesis* 2016-01-01 (ICC/IF, Human)

Fodil N, Moradin N, Leung V et al. CCDC88B is required for pathogenesis of inflammatory bowel disease. *Nat Commun.* 2017-10-13 [PMID: 29030607] (ICC/IF, Mouse)



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## Products Related to NBP2-29475

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-34039PEP	CD8 Recombinant Protein Antigen
210-TA-005	TNF-alpha [Unconjugated]

## 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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