

Product Datasheet

CD4 Antibody (W3/25) - BSA Free NB100-64988

Unit Size: 0.25 mg

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

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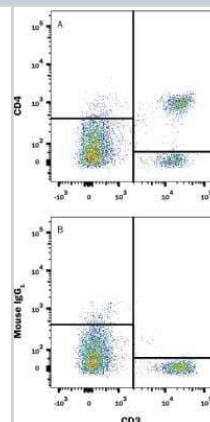
NB100-64988

CD4 Antibody (W3/25) - BSA Free

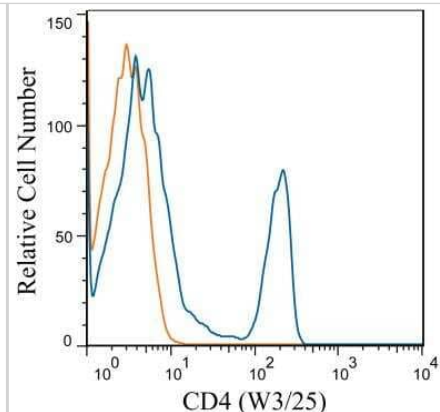
Product Information	
Unit Size	0.25 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	W3/25
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Product Description	
Host	Mouse
Gene ID	920
Gene Symbol	CD4
Species	Rat
Specificity/Sensitivity	NB100-64988 recognizes the rat CD4 cell surface glycoprotein, a 55kD molecule expressed by helper T cells and weakly by monocytes. This product is routinely tested in flow cytometry on rat splenocytes.
Immunogen	Rat Thymocyte Membrane Glycoproteins
Product Application Details	
Applications	Flow Cytometry, Flow (Cell Surface), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Flow Cytometry 1:100-1:200, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500, Flow (Cell Surface)
Application Notes	This antibody inhibits proliferation and IL-2 production in the MLR reaction. This clone has been described reacting with paraffin-embedded material following PLP fixation (periodate-lysine-paraformaldehyde), thus PLP fixation is recommended for optimal results.

Images

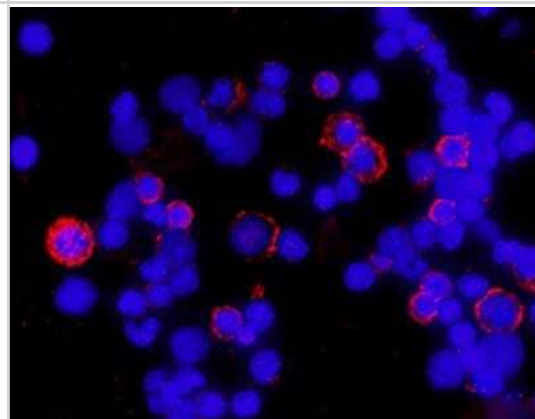
Flow Cytometry: CD4 Antibody (W3/25) [NB100-64988] - Detection of CD4 in Rat Splenocytes by Flow Cytometry. Rat splenocytes were stained with (A) Mouse Anti-Rat CD4 Monoclonal Antibody (Catalog # NB100-64988) or (B) Mouse IgG2A Isotype Control Antibody (Catalog # MAB003) followed by anti-Mouse IgG APC-conjugated secondary antibody (Catalog # F0101B) and Mouse Anti-Rat CD3 epsilon PE conjugated Monoclonal Antibody.



Flow (Cell Surface): CD4 Antibody (W3/25) [NB100-64988] - Rat Splenocytes were stained with NB100-64988 (blue) and a matched isotype control NBP2-27287 (orange). Cells were incubated in an antibody dilution of 1 ug/mL for 20 minutes at room temperature. The antibodies were directly conjugated to Alex Fluor 488.



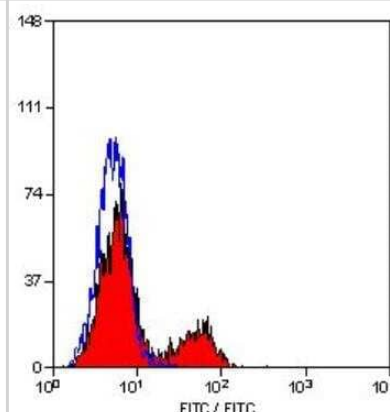
Immunocytochemistry/Immunofluorescence: CD4 Antibody (W3/25) [NB100-64988] - Staining of rat splenocytes with CD4 (W3/25) antibody. Live cells were incubated with CD4 antibody on ice, then fixed with 2% formaldehyde prior to secondary antibody incubation.



Immunohistochemistry-Frozen: CD4 Antibody (W3/25) [NB100-64988] - Staining of frozen rat spleen with Mouse anti Rat CD4.



Flow Cytometry: CD4 Antibody (W3/25) [NB100-64988] - Staining of stimulated rat spleen cells.



Publications

Lee HS, Kim DK, Kim YB, Lee KJ. Effect of acute stress on immune cell counts and the expression of tight junction proteins in the duodenal mucosa of rats Gut Liver 2013-03-01 [PMID: 23560155] (Immunohistochemistry-Paraffin, Rat)

Kingston D, Chang H, Ensser A et al. Inhibition of retromer activity by herpesvirus saimiri tip leads to CD4 downregulation and efficient T cell transformation. J Virol 2011-10-01 [PMID: 21849449]





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Products Related to NB100-64988

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)
NBP1-19371PEP	CD4 Antibody Blocking Peptide

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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