

# Product Datasheet

## CD4 Antibody (GK1.5) - BSA Free NBP2-25191

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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**NBP2-25191**

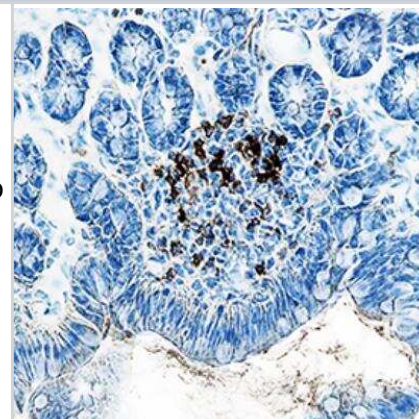
CD4 Antibody (GK1.5) - BSA Free

<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>	GK1.5
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG Kappa
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS
<b>Product Description</b>	
<b>Host</b>	Rat
<b>Gene ID</b>	920
<b>Gene Symbol</b>	CD4
<b>Species</b>	Mouse
<b>Immunogen</b>	The mouse cytotoxic T lymphocyte line V4 was used as the immunogen for the CD4 antibody.
<b>Product Application Details</b>	
<b>Applications</b>	Flow Cytometry, Flow (Cell Surface), Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, In vitro assay, In vivo assay, Immunoprecipitation, Block/Neutralize
<b>Recommended Dilutions</b>	Flow Cytometry 2.5 ug / 1 million cells. Use reported in scientific literature (PMID 25340039), Immunohistochemistry 1:10-1:500, Immunocytochemistry/Immunofluorescence 1:10-1:500, Immunoprecipitation, Immunohistochemistry-Frozen 1:10-1:500, In vitro assay reported in scientific literature (PMID 25340039), In vivo assay reported in scientific literature (PMID 25340039), Flow (Cell Surface) 2.5 ug / 1 million cells, Block/Neutralize reported in scientific literature (PMID 25340039)

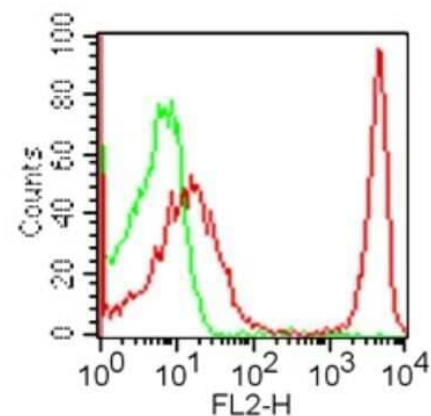


## Images

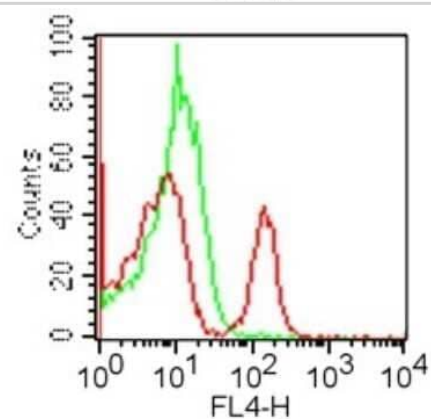
Immunohistochemistry-Frozen: CD4 Antibody (GK1.5) [NBP2-25191] - CD4 was detected in immersion fixed frozen sections of mouse intestine using Rat Anti-Mouse CD4 Monoclonal Antibody (Clone GK1.5) at 1 ug/mL overnight at 4 degrees C. Tissue was stained using the Anti-Rat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS017) and counterstained with hematoxylin (blue). Specific staining was localized to plasma membranes of lymphocytes.



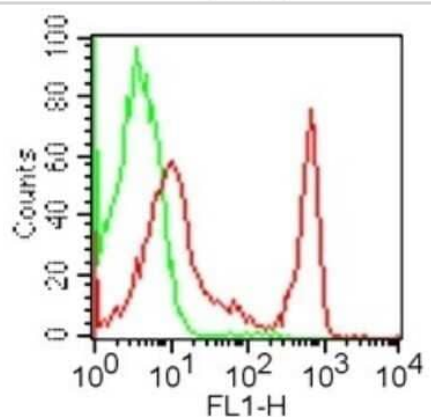
Flow Cytometry: CD4 Antibody (GK1.5) [NBP2-25191] - Analysis using the PE conjugate of NBP2-26585. Staining of CD4 in  $10^6$  BALB/c mouse splenocytes using 1 ug of this antibody ; red represents mouse CD4 this antibody. Image using the Azide Free format of this antibody.



Flow Cytometry: CD4 Antibody (GK1.5) [NBP2-25191] - Analysis using the Allophycocyanin conjugate of NBP2-26585. Staining of CD4 in  $10^6$  BALB/c mouse splenocytes using 1 ug of this antibody. Green represents isotype control; red represents mouse CD4 this antibody. Image using the Azide Free format of this antibody.



Flow Cytometry: CD4 Antibody (GK1.5) [NBP2-25191] - Analysis using the FITC conjugate of NBP2-26585. Staining of CD4 in  $10^6$  BALB/c mouse splenocytes using 1 ug of NBP2-26584. Green represents isotype control (20212C); red represents mouse CD4 NBP2-26584 antibody. Image using the Azide Free format of this antibody.



## Publications

Sohn HS, Choi JW, Jhun J Et al. Tolerogenic nanoparticles induce type II collagen-specific regulatory T cells and ameliorate osteoarthritis Sci Adv 2022-11-25 [PMID: 36427299] (IF/IHC, Mouse)

### Details:

Citation using the FITC version of this antibody.

Radhakrishnan Rk, Thandi Rs, Tripathi D et Al. BCG vaccination reduces the mortality of Mycobacterium tuberculosis-infected type 2 diabetes mellitus mice JCI Insight 2020-03-12 [PMID: 32161191] (FLOW, Mouse)

Liu X, Deng J, Li R et al. ERbeta-selective agonist alleviates inflammation in a multiple sclerosis model via regulation of MHC II in microglia Am J Transl Res 2019-07-15 [PMID: 31396345] (FLOW, Mouse)

Nishana M, Nilavar NM, Kumari R et al. HIV integrase inhibitor, Elvitegravir, impairs RAG functions and inhibits V(D)J recombination. Cell Death Dis. 2017-06-01 [PMID: 28569776] (FLOW, Mouse)

McLellan AD, Kapp M, Eggert A et al. Anatomic location and T-cell stimulatory functions of mouse dendritic cell subsets defined by CD4 and CD8 expression. Blood. 2002-03-15 [PMID: 11877283] (FLOW, Mouse)

### Details:

This citation used the FITC version of this antibody.

Humar M, Azemar M, Maurer M, Groner B. Adaptive Resistance to Immunotherapy Directed Against p53 Can be Overcome by Global Expression of Tumor-Antigens in Dendritic Cells. Front Oncol. 2014-10-23 [PMID: 25340039] (In Vivo, B/N, FLOW, Mouse)

### Details:

CD4 antibody (clone GK1.5) used for in vivo depletion of CD4+ T-cells (intraperitoneal injections of 100 ug antibody). Antibody also used for FLOW on peripheral blood leukocytes isolated from blood samples withdrawn from murine lateral tail veins.



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### **Products Related to NBP2-25191**

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HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
NBP1-75398	Goat anti-Rat IgG (H+L) Secondary Antibody (Pre-adsorbed)
NBP2-25191G	CD4 Antibody (GK1.5) [DyLight 488]
NBP1-19371PEP	CD4 Antibody Blocking Peptide

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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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