

# Product Datasheet

## CD4 Antibody (RPA-T4) - Azide and BSA Free NBP2-25199

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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**NBP2-25199**

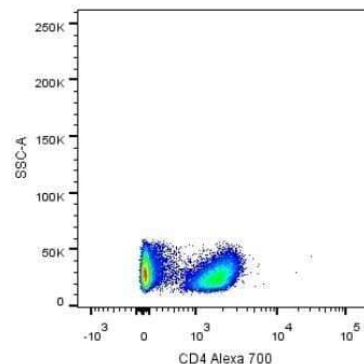
CD4 Antibody (RPA-T4) - Azide and BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1 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>	RPA-T4
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	920
<b>Gene Symbol</b>	CD4
<b>Species</b>	Human
<b>Immunogen</b>	PHA-stimulated human PBMC.
<b>Product Application Details</b>	
<b>Applications</b>	Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen, In vitro assay, Block/Neutralize, CyTOF-ready, Immunohistochemistry-Paraffin (Negative)
<b>Recommended Dilutions</b>	Flow Cytometry, Immunohistochemistry 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500, In vitro assay reported in multiple pieces of scientific literature, Immunohistochemistry-Paraffin (Negative), CyTOF-ready, Block/Neutralize
<b>Application Notes</b>	RPA-T4 is capable of blocking HIV-1, gp120, and inhibits syncytium formation. The RPA-T4 clone reacts with CD4, a 59 kDa single-chain transmembrane glycoprotein [receptor for human HIV virus] present on T-helper/inducer cell populations. This antibody binds to the D1 domain of CDR1 and CDR3 epitopes. The CD4 antigen and reacts with approximately 80% of thymocytes and 45% of peripheral blood lymphocytes. CD4 is also present in low density on peripheral blood monocytes. Clone RPA-T4 is widely published in literature, see Knapp W, Dorken B, Rieber E P, et al, ed. Also see Schlossman SF, Boumsell L, Gilks W, et al, ed..

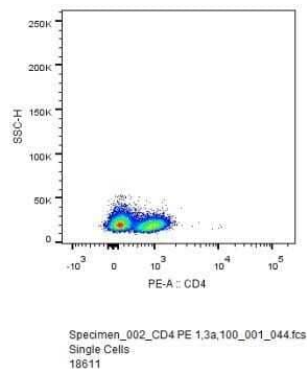


## Images

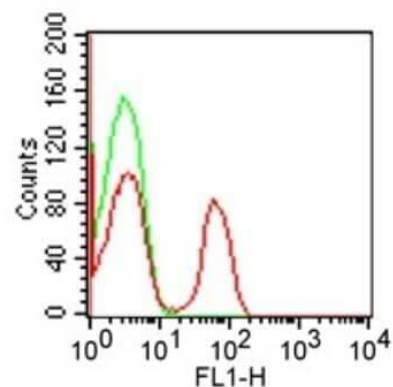
Flow Cytometry: CD4 Antibody (RPA-T4) [NBP2-25199] - Analysis using the Alexa Fluor (R) 700 conjugate of NBP2-27216. Staining of human PBMC. Image from verified customer review.



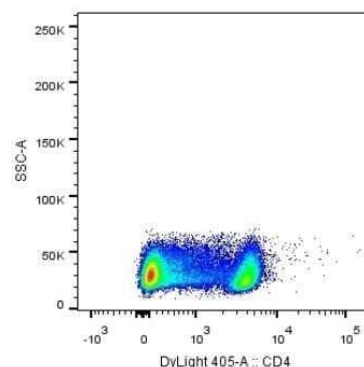
Flow Cytometry: CD4 Antibody (RPA-T4) [NBP2-25199] - Analysis using the PE conjugate of NBP2-27216. Staining of CD4 in human PBMC using anti-CD4 antibody. Image from verified customer review.



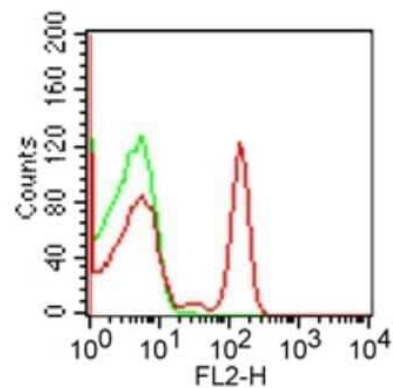
Flow Cytometry: CD4 Antibody (RPA-T4) [NBP2-25199] - Analysis using the FITC conjugate of NBP2-27216. Staining of CD4 in  $1 \times 10^6$  human PBMC using 10  $\mu$ l (0.1  $\mu$ g) of was used to test this product. Propidium iodide negative lymphocyte population gated for analysis. Image using the Azide Free format of this antibody.



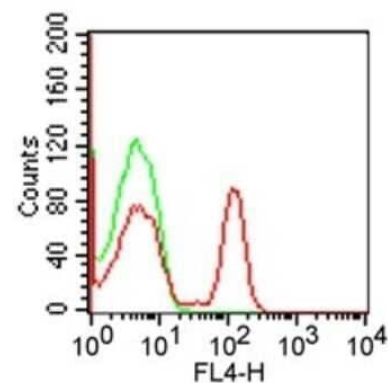
Flow Cytometry: CD4 Antibody (RPA-T4) [NBP2-25199] - Analysis using the DyLight 405 conjugate of NBP2-27216. Staining of CD4 in human PBMCs using anti-CD4 antibody. Image from verified customer review.



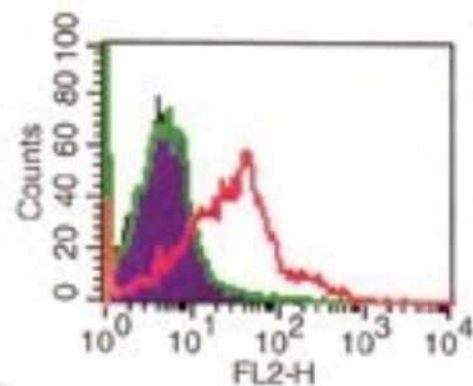
Flow Cytometry: CD4 Antibody (RPA-T4) [NBP2-25199] - Analysis using the PE conjugate of NBP2-27216. Staining of CD4 in  $1 \times 10^6$  human PBMC using 10  $\mu$ l (0.1  $\mu$ g) of this antibody. Green represents isotype control; red represents anti-CD4 antibody. Image using the Azide Free format of this antibody.



Flow Cytometry: CD4 Antibody (RPA-T4) [NBP2-25199] - Analysis using the Allophycocyanin conjugate of NBP2-27216. Staining of CD4 in  $1 \times 10^6$  human PBMC using 10  $\mu$ l (0.1  $\mu$ g) of was used to test this product. Propidium iodide negative lymphocyte population gated for analysis. Image using the Azide Free format of this antibody.



Flow Cytometry: CD4 Antibody (RPA-T4) - Azide and BSA Free [NBP2-25199] - analysis of CD4 in human PBMCs using 0.1  $\mu$ g of this antibody. Secondary antibody is goat anti-mouse PE.



## Publications

Zhang Q, Zong L, Zhang H Et al. B7-H4 Expression in Precancerous Lesions of the Uterine Cervix Biomed Res Int 2021-10-15 [PMID: 34651047] (ICC/IF, Human)

### Details:

Citation using the Azide and BSA Free version of this antibody.

Hellwinkel JE, Redzic JS, Harland TA et al Glioma-derived extracellular vesicles selectively suppress immune responses. Neuro Oncol. 2016-04-01 [PMID: 26385614] (FLOW, Human)

### Details:

Citation using the Azide Free version of this antibody.

Kaneko H, Saito K, Hashimoto H et al. Preferential elimination of CD28+ T cells in systemic lupus erythematosus (SLE) and the relation with activation-induced apoptosis Clin Exp Immunol. 1996-11-01 [PMID: 8918566]

Ruggiero G, Martinez Caceres E, Voordouw A et al. CD40 expressed on thymic epithelial cells provides costimulation for proliferation but not for apoptosis of human thymocytes J Immunol. 1996-05-15 [PMID: 8621909]

Staal FJ, Res PC, Weijer K, Spits H. Development of retrovirally marked human T progenitor cells into mature thymocytes Int Immunol. 1995-08-01 [PMID: 7495737]

Chabanne L, Marchal T, Kaplanski C et al. Screening of 78 monoclonal antibodies directed against human leukocyte antigens for cross-reactivity with surface markers on canine lymphocytes Tissue Antigens. 1994-03-01 [PMID: 8091419]

Wilson MR, Crowley S, Odgers GA, Shaw L. Immunofluorescent labeling using covalently linked anti-phycoerythrin antibodies and phycoerythrin polymers Cytometry. 1991-01-06 [PMID: 2065561]

Schols D, De Clercq E. Human immunodeficiency virus type 1 gp120 induces anergy in human peripheral blood lymphocytes by inducing interleukin-10 production J Virol. 1996-08-01 [PMID: 8764000] (In vitro, Human)

Aversa G, Waugh JA, Hall BM. A monoclonal antibody (A6) recognizing a unique epitope restricted to CD45RO and RB isoforms of the leukocyte common antigen family identifies functional T cell subsets Cell Immunol. 1994-10-15 [PMID: 7522974] (In vitro, Human)

Deng MC, Bell S, Huie P et al. Cardiac allograft vascular disease Relationship to microvascular cell surface markers and inflammatory cell phenotypes on endomyocardial biopsy Circulation. 1995-03-15 [PMID: 7882470] (IHC-Fr, Human)

Galy A, Verma S, Barcena A, Spits H. Precursors of CD3+CD4+CD8+ cells in the human thymus are defined by expression of CD34 Delineation of early events in human thymic development J Exp Med. 1993-08-01 [PMID: 7688021] (FLOW, In vitro, Human)

Res P, Martinez-Caceres E, Cristina Jaleco A et al. CD34+CD38dim cells in the human thymus can differentiate into T, natural killer, and dendritic cells but are distinct from pluripotent stem cells Blood. 1996-06-15 [PMID: 8652833] (FLOW, Human)

More publications at <http://www.novusbio.com/NBP2-25199>





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### Products Related to NBP2-25199

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP2-27216V	CD4 Antibody (RPA-T4) [DyLight 405]

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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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