Product Datasheet

CD45RA Antibody (158-4D3) NBP2-15193-0.1mg

Unit Size: 0.1 mg Store at 4C.

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NBP2-15193-0.1mg

CD45RA Antibody (158-4D3)	
Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	158-4D3
Preservative	0.05% Sodium Azide
Isotype	IgG2a Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-33144) Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	5788
Gene Symbol	PTPRC
Species	Human
Marker	Leucocyte Marker
Specificity/Sensitivity	Recognizes a protein of 205kDa-220kDa, identified as CD45RA [Workshop V; Code CD45.38]. CD45RA is isoforms of the human leukocyte common antigen (CD45). Human CD45 contains three exons which encode peptide segments designated A, B and C, respectively. The differential splicing of the exons generates at least five isoforms, ABC, AB, BC, B and O. This antibody reacts with ABC and BC isoforms. CD45RA is expressed on 40-50% of peripheral CD4+ T-cells, 50% of peripheral CD8+ T-cells, B-cells, and leukemic B-cell lines. T-cells expressing CD45RA are naive or virgin T-cells. T-cells expressing CD45RO are memory T-cells. CD45RA and CD45RO define complementary, predominantly non-overlapping populations of resting peripheral T-cells. This monoclonal antibody is useful in study on the subpopulation of CD4+ or CD8+ T-cells. It can especially be used to differentiate T-cell lymphomas (CD45RO +ve) from B cell lymphomas (CD45RA +ve).
Immunogen	Stimulated human leukocytes
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1-2 ug/ml, Flow Cytometry 0.5-1 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml

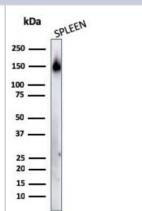


Application Notes

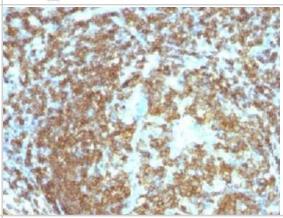
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. The Workshop V code for clone 158-4D3 is CD45.38.

Images

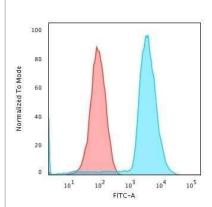
Western Blot: CD45RA Antibody (158-4D3) [NBP2-15193] - Western Blot Analysis of human spleen tissue lysates using CD45RA Antibody (158-4D3).



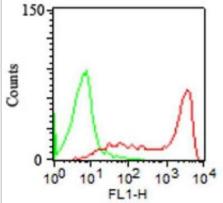
Immunohistochemistry-Paraffin: CD45RA Antibody (158-4D3) [NBP2-15193] - Formalin-fixed, paraffin-embedded human Tonsil stained with CD45RA Monoclonal Antibody (158-4D3).



Flow Cytometry: CD45RA Antibody (158-4D3) [NBP2-15193] - Flow Cytometric Analysis of Jurkat cells. CD45RA Antibody (158-4D3) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



Flow Cytometry: CD45RA Antibody (158-4D3) [NBP2-15193] - Surface staining of 10^6 PBMC using 1 ug of CD45RA antibody (red), anti mouse IgG FITC secondary and mouse IgG2a isotype control (green).





Publications

Jiang S, Ding X, Wu Q et al. Identifying immune cells-related phenotype to predict immunotherapy and clinical outcome in gastric cancer Frontiers in immunology 2022-08-11 [PMID: 36032097] (IHC-P, Human)

Details:

Lot 5788-2P200827

Perugino CA, Kaneko N, Maehara T et al. CD4+ and CD8+ cytotoxic T lymphocytes may induce mesenchymal cell apoptosis in IgG4-related disease J. Allergy Clin. Immunol. 2020-05-30 [PMID: 32485263]

Mahalingam M, Pozniak A, McManus TJ et al. Abnormalities of CD45 isoform expression in HIV infection. Clin Immunoplathol. 1996-11-01 [PMID: 8906753]





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Products Related to NBP2-15193-0.1mg

HAF007 Goat anti-Mouse IgG Secondary Antibody [HRP]

NB720-B Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]

NBP1-96981-0.5mg Mouse IgG2a Kappa Isotype Control (M2AK)

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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