

Product Datasheet

CD45 Antibody (OX-1) - BSA Free NB100-64895

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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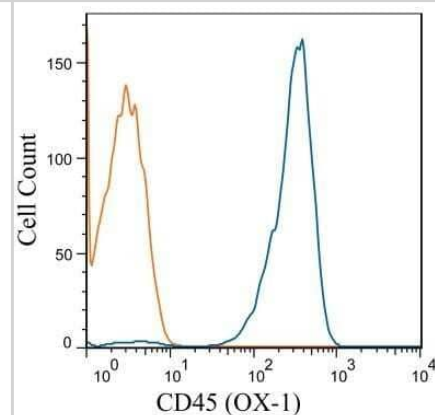
NB100-64895

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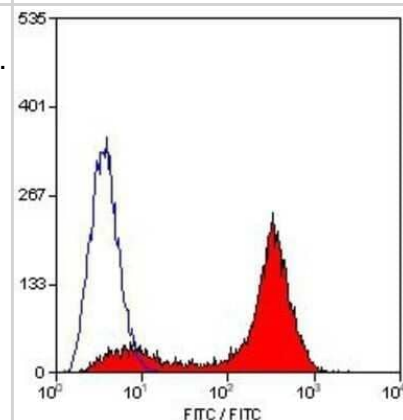
Product Information	
Unit Size	0.25 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	OX-1
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	143 kDa
Product Description	
Host	Mouse
Gene ID	5788
Gene Symbol	PTPRC
Species	Rat
Immunogen	This CD45 Antibody (OX-1) was prepared from A 100kD thymocyte glycoprotein fraction enriched for the rat leukocyte common antigen (L-CA).
Product Application Details	
Applications	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, CyTOF-ready
Recommended Dilutions	Flow Cytometry 1:100, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500, CyTOF-ready
Application Notes	The antibody is directed against L-CA (leukocyte common antigen), the rat equivalent of CD45 which has a molecular weight 180-240kDa, and is present on all rat leukocytes, but not erythroid cells or cells of other tissues. This antibody is CyTOF ready.

Images

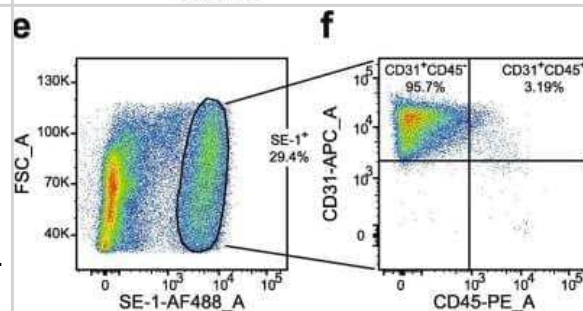
Flow Cytometry: CD45 Antibody (OX-1) [NB100-64895] - Analysis using Alexa Fluor (R) 488 conjugate of CD45 antibody (OX-1). Rat Splenocytes were stained with CD45 antibody (OX-1) [NB100-64895] (blue) and a matched isotype control [NBP2-27287] (orange). Cells were incubated in an antibody dilution of 1 ug/mL for 20 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.



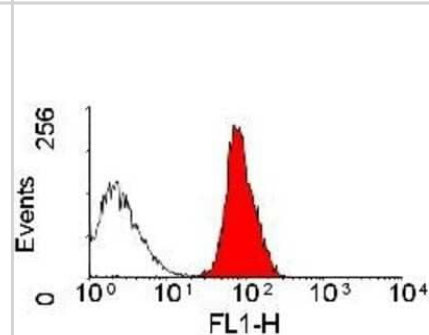
Flow Cytometry: CD45 Antibody (OX-1) [NB100-64895] - Analysis using the FITC conjugate of CD45 antibody (OX-1). Staining of rat spleen cells.



Flow Cytometry: CD45 Antibody (OX-1) - BSA Free [NB100-64895] - Representative sequential gating during flow cytometry analysis of rat non-parenchymal liver cells (n = 4). Cells were labeled with antibodies to SE-1 (NB110-68095AF488), CD31, and CD45 (NB100-64895PE). LSECs were then identified as SE-1-Alexa488+ cells (e), and the biexponential CD45-PE/CD31-APC of events (f) were used to display and select the CD45+ CD31+ subsets of LSECs. FMOs (used for gating), and single antibody staining controls are shown in Additional file. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/33246411/>) licensed under a CC-BY license.



Flow Cytometry: CD45 Antibody (OX-1) [NB100-64895] - Staining of rat peripheral blood lymphocytes with mouse anti-rat CD45 antibody (OX-1) [NB100-64895].



Publications

Han N, Su Y, Guo M, Yu L Retinal SHP2 silencing alleviates diabetic retinopathy via suppressing inflammatory response and oxidative stress by regulating YAP1 activity Experimental animals 2022-04-08 [PMID: 35400714] (IHC-P, Rat)

Liu, C Y, Yin, G Et al. Effect of exosomes from adipose-derived stem cells on the apoptosis of Schwann cells in peripheral nerve injury. CNS Neurosci Ther 2020-02-01 [PMID: 31278850] (WB, C. elegans)

Bhandari, S, Li, R Et al. Transcriptome and proteome profiling reveal complementary scavenger and immune features of rat liver sinusoidal endothelial cells and liver macrophages. BMC Mol Cell Biol 2020-11-27 [PMID: 33246411] (IF/IHC, Human)

Tigges J, Eggerbauer F, Worek F Et al. Optimization of long-term cold storage of rat precision cut lung slices (PCLS) with a tissue preservation solution American journal of physiology. Lung cellular and molecular physiology 2021-10-13 [PMID: 34643087] (FLOW, Rat)

Mironets E, Fischer R, Bracchi-Ricard V et al. Attenuating neurogenic sympathetic hyperreflexia robustly improves antibacterial immunity after chronic spinal cord injury J. Neurosci. 2019-11-21 [PMID: 31754014] (IF/IHC)

Majerova Petra, Michalicova Alena, Cente Martin et al. Trafficking of immune cells across the blood-brain barrier is modulated by neurofibrillary pathology in tauopathies. PloS One 2019-05-23 [PMID: 31120951] (IHC-Fr, Rat)

Wirtz MR, Jurgens J, Zuurbier CJ et al. Washing or filtering of blood products does not improve outcome in a rat model of trauma and multiple transfusion. Transfusion. 2018-11-21 [PMID: 30461025] (FLOW, Rat)

Hersant B, Bouhassira J, SidAhmed-Mezi M, Vidal L. Should platelet-rich plasma be activated in fat grafts? An animal study. J Plast Reconstr Aesthet Surg. 2018-02-02 [PMID: 29477267] (IF/IHC, Rat)

Crook K, Hunt SV. Enrichment of early fetal-liver hemopoietic stem cells of the rat using monoclonal antibodies against the transferrin receptor, Thy-1, and MRC-OX82. Dev Immunol. [PMID: 8924759] (FLOW, Rat)

Nagai Y, Inobe M, Kikuchi K, Uede T. Functional and phenotypical analysis of subsets of rat CD4+ T cells. Microbiol Immunol. [PMID: 7504163] (FLOW, Rat)

Kampinga J, Kroese FG, Pol GH et al. RT7-defined alloantigens in rats are part of the leucocyte common antigen family. Scand J Immunol. 1990-06-01 [PMID: 2192438]

Kampinga J, Kroese FG, Pol GH et al. Inhibition of T cell responses in vitro by an antibody against a novel lymphocyte surface molecule (QCA-1). Int Immunol. 1990-01-01 [PMID: 2150331]

More publications at <http://www.novusbio.com/NB100-64895>



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Products Related to NB100-64895

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)
NB100-64895PE	CD45 Antibody (OX-1) [PE]

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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