

FITC anti-rat CD45RA Antibody

Catalog# / Size	202305 / 100 µg
Clone	OX-33
Regulatory Status	RUO
Other Names	Leukocyte common antigen, high molecular weight form
Isotype	Mouse IgG1, κ
Description	CD45 is a protein tyrosine phosphatase with multiple isoforms differing as a result of alternative splicing of the extracellular domain and glycosylation. CD45 is expressed on all hematopoietic cells except erythrocytes and platelets. CD45RA is one of the CD45 isoforms with a molecular weight of 200-220 kD. It is expressed almost exclusively on B cells. CD45 functions in signal transduction through T and B cell antigen receptors. CD45 has been shown to interact with various proteins, including galectin-1, CD2, CD3, and CD4.

Product Details

Verified Reactivity	Rat
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Leukocyte common antigen purified from rat splenocytes.
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunohistochemistry of acetone-fixed frozen sections ¹ .
Application References (PubMed link indicates BioLegend citation)	1. Smith T, <i>et al.</i> 2000. <i>Nature Med.</i> 6:62. (IHC)
RRID	AB_314009 (BioLegend Cat. No. 202305)

Antigen Details

Structure	Protein tyrosine phosphatase, type I transmembrane protein, high molecular weight isoform approximately 200-220 kD
Distribution	Primarily on B lymphocytes

Function	B cell receptor signal transduction
Ligand/Receptor	Galectin-1, CD2, CD3, CD4
Cell Type	B cells
Biology Area	Cell Biology, Immunology, Inhibitory Molecules, Neuroscience, Neuroscience Cell Markers
Molecular Family	CD Molecules
Antigen References	1. Sunderland CA, <i>et al.</i> 1979. <i>Eur. J. Immunol.</i> 9:155. 2. Woollett GR, <i>et al.</i> 1985. <i>Eur. J. Immunol.</i> 15:168.
Gene ID	24699

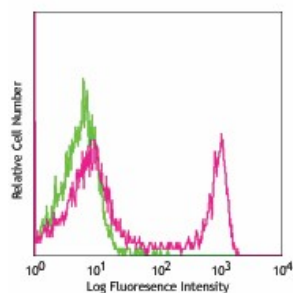
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-rat CD45RA, Biotin anti-rat CD45RA, FITC anti-rat CD45RA, PE anti-rat CD45RA, Alexa Fluor® 488 anti-rat CD45RA, APC anti-rat CD45RA, PerCP/Cyanine5.5 anti-rat CD45RA, PE/Cyanine7 anti-rat CD45RA

Product Data



LOU rat splenocytes stained with OX-33
FITC

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587