

## Biotin anti-rat CD45RA Antibody

<b>Catalog# / Size</b>	202303 / 100 µg
<b>Clone</b>	OX-33
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Leukocyte common antigen, high molecular weight form
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	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

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<b>Verified Reactivity</b>	Rat
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Leukocyte common antigen purified from rat splenocytes.
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
<b>Preparation</b>	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions.
<b>Concentration</b>	0.5 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . 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.
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: immunohistochemistry of acetone-fixed frozen sections <sup>1</sup> .
<b>Application References</b>	1. Smith T, <i>et al.</i> 2000. <i>Nature Med.</i> 6:62. (IHC)
<b>(PubMed link indicates BioLegend citation)</b>	
<b>RRID</b>	AB_314008 (BioLegend Cat. No. 202303)

### Antigen Details

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<b>Structure</b>	Protein tyrosine phosphatase, type I transmembrane protein, high molecular weight isoform approximately 200-220 kD
<b>Distribution</b>	Primarily on B lymphocytes
<b>Function</b>	B cell receptor signal transduction
<b>Ligand/Receptor</b>	Galectin-1, CD2, CD3, CD4

<b>Cell Type</b>	B cells
<b>Biology Area</b>	Cell Biology, Immunology, Inhibitory Molecules, Neuroscience, Neuroscience Cell Markers
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	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.
<b>Gene ID</b>	<a href="#">24699</a>

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

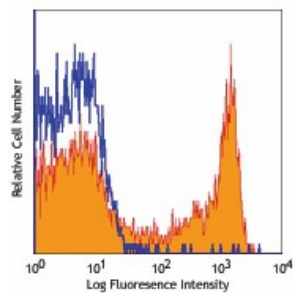
## Other Formats

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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

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LOU rat splenocytes stained with biotinylated OX-33, followed by Sav-PE

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