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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
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Anti-Rat CD45RA/B
Monoclonal Antibody

Catalogue#	Format	Size	Concentration	Isotype Control
CL033AP	Purified	250µg	1.0 mg/ml	CLCMG115
CL033AP-S	Purified	50µg	1.0 mg/ml	CLCMG115
CL033AP-2	Purified	500µg	1.0 mg/ml	CLCMG115
CL033B	Biotin	100µg	0.1 mg/ml	CLCMG115
CL033B-5	Biotin	500µg	0.1 mg/ml	CLCMG115
CL033F	FITC	100µg	0.1 mg/ml	CLCMG115
CL033F-5	FITC	500µg	0.1 mg/ml	CLCMG115
CL033PE	PE	50µg	0.1 mg/ml	CLCMG115
CL033PE-4	PE	200µg	0.1 mg/ml	CLCMG115
CL033AF4	Alexa Fluor®488	100 µg	0.1 mg/ml	N/A

Alexa Fluor® is a registered trademark of Life Technologies Corporation.

Isotype: Mouse IgG_1

DESCRIPTION:

The rat CD45 antigen (Leukocyte Common Antigen (L-CA)) has been shown to exist in different forms on different lymphoid cell types. CD45 on thymocytes shows one main band at 180 kDa, T cells show 4 bands at 180, 190, 200 and 220 kDa. CL033 detects a subfraction of the 240 kDa rat CD45 band found only on B lymphocytes. This monoclonal antibody is of particular use in the investigation of the molecular and antigenic heterogeneity of rat L-CA, especially when used in conjunction with other OX antibodies.

Four mouse monoclonal antibodies (MRC OX 1, 28, 29 and 30) react with all molecular forms of L-CA and fall into two sets that are non-competitive in binding to L-CA (MRC OX 1, 28, 29 and 30). The antigenic determinants seen by all these antibodies are lost when L-CA is reduced and alkylated. Three antibodies (MRC OX 22, 31, and 32) react selectively with B cells, T cytotoxic cells and about two thirds of T helper cells. OX 22 and OX 31 compete for binding but are non- competitive with OX 32. All of these antibodies bind to a sub-fraction of the 190, 200 and 220 kDa forms of T cell L-CA but not at all to the 180 kDa form of T cells or thymocytes.

This clone works in flow cytometry and with frozen and paraffin sections (2,3).

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN3. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.
Biotin, FITC, PE and AF488: Biotin/FITC/PE/AF488 conjugated IgG buffered in PBS, 0.02% NaN3 and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

In CANADA: Toll Free: 1-800-268-5058
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STORAGE/STABILITY:

Stable at +4°C. DO NOT FREEZE **PE and AF488** conjugates. For long term storage (**Purified, Biotin, FITC**), aliquot and freeze unused portions at -20°C in volumes appropriate for single usage. Avoid repeated freeze/thaw cycles.

SPECIFICATIONS:

Clone: OX-33

Hybridoma Production:
Immunization: Immunogen: Rat purified spleen L-CA
Donor: BALB/c spleen
Fusion Partner: NSO/U

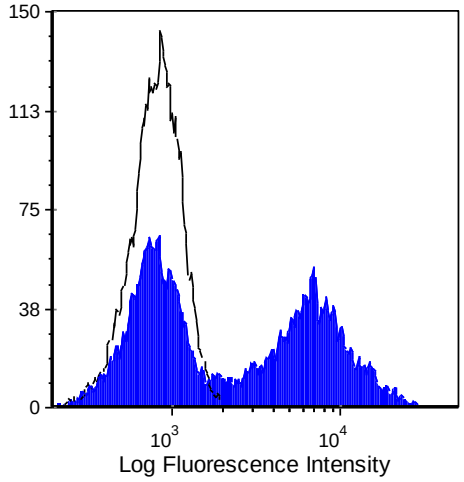
Specificity: Rat CD45RA/B

Strains Tested: Wistar, Brown Norway, Buffalo, Fischer 344
Positive: Wistar, Buffalo, Brown Norway, Fischer 344

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:
Mouse Strain: Wistar
Cell Concentration: $1x10^6$ cells per test
Antibody Concentration Used: 0.5 µg/10^6 cells

Cell Source	Percentage of cells stained above control:
Spleen	29.2%
Thymus	2.1%
Lymph Node	4.61%



Wistar rat splenocytes stained with anti-CD45RA/B (clone: OX-33) (filled histogram) or mouse IgG1, isotype control (open histogram).

06/07/2018

N.B. Appropriate control samples should always be included in any labelling studies.
*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

REFERENCES:

1. Woolett, G.R., Barclay, A.N. Paklavec, M., and A.G. Williams (1985). Molecular and antigenic heterogeneity of the rat leukocyte-common antigen from thymocytes and T and B lymphocytes. Eur. J. Immunol. 15: 168-173.
2. Whiteland, J.L et al (1995). Immunohistochemical detection of T cell subsets and other leukocytes in paraffin embedded rat and mouse tissues with monoclonal antibodies .J. Histochem. Cytochem. 43: 313-320.
3. Meltzer JC, et al. (2003) Contribution of the adrenal glands and splenic nerve to LPS-induced splenic cytokine production in the rat. Brain Behav Immun. 17(6):482-97.

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