

anti-rat CD45 RA/B**Cat-No.: R32136****0.1 mg****Clone:** MRC OX-33

Specificity: 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. It 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 2, 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.

Isotype subclass: Mouse IgG 1**Form:** Purified**Physical state:** Liquid**Buffer/Additives/Preservative:** PBS containing 0.09 % sodium azide (pH 7.4).**Expiration date:** The reagent is stable until the expiry date stated on the vial label.**Storage conditions:** For long term storage, aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.**Application:**

Flow Cytometry

Immunohistochemistry (paraffin and frozen sections)

References:

1. Woollett, G.R., Barclay, A.N., Paklavac, 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.

Warning:

Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink, and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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