

Monoclonal Antibody to MHC Class II RT1Bu - PE

Catalog No.:	SM082R
Quantity:	100 Tests
Uniprot ID:	QZ0RH8
NCBI:	10116
Host / Isotype:	Mouse / IgG1
Clone:	OX-3
Immunogen:	Rat thymocyte membrane glycoproteins. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Format:	State: Lyophilized purified IgG Purification: Ion exchange chromatography Buffer System: PBS, pH7.4 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin Label: PE – R. Phycoerythrin (RPE) Reconstitution: Restore with 1 ml distilled water
Applications:	Flow cytometry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises a polymorphic determinant of rat Ia antigen (RT1.Bu) present on Lewis, Wistar and AO strain rats but not BN, DA or PVG/c strains. This antibody is useful for distinguishing Ia positive cells from different rat strains, e.g. for recognising cells of donor origin in bone marrow reconstituted radiation chimaeras. MRC OX-3 cross reacts with mouse strains of MHC haplotypes b and s, and analysis of recombinant mouse strains showed that the determinants mapped to the I-A region. This antibody recognises Ia antigens on B-cells, dendritic cells and certain epithelial cells. Species: Rat. Other species not tested.
Storage:	Prior to and following reconstitution store the antibody at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Shelf life: 6 month from despatch.
General References:	1. McMaster, W. R. and Williams, A. F. (1979) Identification of Ia glycoproteins in rat thymus and purification from rat spleen. <i>Eur. J. Immunol.</i> 9: 426-433. 2. McMaster, W. R. and Williams, A. F. (1979) Monoclonal antibodies to Ia antigens from rat thymus: cross reactions with mouse and human and use in purification of rat Ia glycoproteins. <i>Immunol. Rev.</i> 47: 117-137. 3. Barclay, A.N. and Mayrhofer G. (1981) Bone marrow origin of Ia-positive cells in the medulla of rat thymus. <i>J. Exp. Med.</i> 153: 1666-1671.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

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4. Barclay, A.N. (1981) The localization of populations of lymphocytes defined by monoclonal antibodies in rat lymphoid tissues. *Immunology* 42: 593-600.
5. Zhang, J. et al. (1997) Expression of major histocompatibility complex molecules in rodent retina. *Immunohistochemical study. Invest Ophthalmol Vis. Sci.* 38 (9): 1848 - 1857.
6. Hahm. K. et al. (2000) Loss of TGF - beta signaling contributes to autoimmune pancreatitis. *J. Clin. Invest.* 105: 1057 - 1065.

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