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Monoclonal Antibody to MHC Class II RT1Bu - FITC

Catalog No.: SM082F

Quantity: 0.1 mg

Concentration: 0.1 mg/ml

Uniprot ID: Q70RH8

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 from the NS1 mouse myeloma cell line.

Format:
State: Liquid purified IgG
Buffer System: PBS, pH7.4 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin
Label: FITC – Fluorescein Isothiocyanate Isomer 1

Applications: Flow cytometry: Use 10 µl of neat antibody to label 10e6 cells in 100 µl.
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 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, Mouse.
Other species not tested.

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
This product is photosensitive and should be protected from light.
Shelf life: one year 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. Eur. J. Immunol. 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. Immunol. Rev. 47: 117-137.
3. Barclay, A.N. and Mayrhofer G. (1981) Bone marrow origin of Ia-positive cells in the medulla of rat thymus. J. Exp. Med. 153: 1666-1671.
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.