

Monoclonal Antibody to CD1 - FITC

Catalog No.:	AM01039FC-N
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	<p>All CD1 molecules, except CD1e, are cell surface glycoproteins that are structurally related to the MHC molecules, however, in distinction, CD1 proteins are essentially non polymorphic. CD1 has considerable structural homology with both MHC class I and class II molecules, and CD1 molecules are involved in T cell activation. In contrast to MHC, however, CD1 molecules appear to present predominantly non peptide molecules originating from lipids and glycolipids.</p> <p>CD1 is primarily expressed in cortical thymocytes and dendritic cells in the dermis, afferent lymph, lymph node, spleen and thymus.</p>
Host / Isotype:	Mouse / IgG1
Clone:	20.27
Immunogen:	<p>Ovine thymocytes.</p> <p>Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS-1 myeloma cell line.</p> <p>Genename: CD1</p>
Format:	<p>State: Liquid purified Ig fraction.</p> <p>Purification: Affinity Chromatography on Protein G.</p> <p>Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer.</p> <p>Label: FITC</p>
Applications:	<p>Flow Cytometry: Use 10 µl of 1/5-1/10 diluted CD1 antibody to label 1 x 10⁶ cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Specificity:	<p>This antibody recognises the ovine CD1 cell surface antigen.</p> <p>Clone 20.27 does not bind to Granulocytes, Platelets and Erythrocytes.</p> <p>Species: Sheep, Bovine, Goat.</p> <p>Other species not tested.</p>
Storage:	<p>Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.</p> <p>This product is photosensitive and should be protected from light.</p> <p>Should this product contain a precipitate we recommend microcentrifugation before use.</p> <p>Shelf life: one year from despatch.</p>
General Readings:	1. Mackay CR, Maddox JF, Gogolin-Ewens KJ, Brandon MR. Characterization of two sheep lymphocyte differentiation antigens, SBU-T1 and SBU-T6. Immunology. 1985

Aug;55(4):729-37. PubMed PMID: 3894224.

2. Mackay CR, Maddox JF, Brandon MR. Thymocyte subpopulations during early fetal development in sheep. J Immunol. 1986 Mar 1;136(5):1592-9. PubMed PMID: 2419408.