

Monoclonal Antibody to CD1 - Purified

Catalog No.: AM01039PU-N

Quantity: 0.25 mg

Concentration: 1.0 mg/ml

Background: 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.

CD1 is primarily expressed in cortical thymocytes and dendritic cells in the dermis, afferent lymph, lymph node, spleen and thymus, and also on B lymphocytes and monocytes.

Host / Isotype: Mouse / IgG1

Recommended Isotype Controls: AM03095PU-N

Clone: 20.27

Immunogen: Ovine thymocytes.
Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS-1 myeloma cell line.

Genename: CD1

Format: **State:** Liquid purified Ig
Purification: Affinity chromatography on Protein G
Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide

Applications: Immunohistochemistry on frozen sections.
Immunoprecipitation.
Flow Cytometry: 1/25 - 1/100; Use 10ul of the suggested working dilution to label 1 x 10⁶ cells in 100ul.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: Recognises the ovine CD1 cell surface antigen.
This antibody immunoprecipitates antigens at 12kD and 46kD. It is unreactive with Granulocytes, Platelets and Erythrocytes.
Species: Sheep, Bovine, Goat.
Other species not tested.

Storage: Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf life: one year from despatch.

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.