

CD1a Monoclonal Antibody (NA1/34-HLK)

Catalog Number MA1-33803

Product data sheet

Details		Species Reactivity	
Size	250 µg	Species reactivity	Human, Non-human primate
Host/Isotope	Mouse / IgG2a	Tested Applications	Dilution *
Class	Monoclonal		
Type	Antibody		
Clone	NA1/34-HLK		
Immunogen	Human thymocytes	Flow Cytometry (Flow)	1:50-1:100 (10 µL for 10^6 cells in 100 µL)
Conjugate	Unconjugated	Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent
Form	Liquid	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Concentration	1 mg/mL		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

MA1-33803 detects CD1a from human, non-human primate samples. MA1-33803 has been successfully used in immunohistochemistry (frozen tissue) applications. The MA1-33803 immunogen is: Human thymocytes Store product as a concentrated solution. Centrifuge briefly prior to opening the vial. For short-term storage (1-2 weeks), product can be stored at 4°C. For long-term storage, aliquot and store product at -20° C or below, avoiding multiple freeze-thaw cycles.

Background/Target Information

CD1a is a non-polymorphic MHC Class 1 related cell surface glycoprotein, expressed in association with Beta 2 microglobulin. CD1a is expressed by cortical thymocytes, Langerhan's cells and by interdigitating cells. CD1a is also expressed by some malignancies of T cell lineage and in histiocytosis X. CD1a is expressed on cortical thymocytes, epidermal Langerhans cells, dendritic cells, on certain T-cell leukemias, and in various other tissues. CD1a is structurally related to the major histocompatibility complex (MHC) proteins and form heterodimers with beta-2-microglobulin. The CD1 proteins mediate the presentation of primarily lipid and glycolipid antigens of self or microbial origin to T cells. The human genome contains five CD1 family genes organized in a cluster on chromosome 1. The CD1 family members are thought to differ in their cellular localization and specificity for particular lipid ligands. CD1a localizes to the plasma membrane and recycles vesicles of the early endocytic system. At least five CD1 genes (CD1a, b, c, d, and e) are identified. Alternatively spliced transcript variants of CD1a have been observed, but their biological validity have not been determined.

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