

Product datasheet for **SM3086R**

CD1 (CD1A) Mouse Monoclonal Antibody [Clone ID: HI149]

Product data:

Product Type:	Primary Antibodies
Clone Name:	HI149
Applications:	FC
Recommended Dilution:	Suitable for Flow Cytometry analysis of human blood cells using 20 µl reagent / 100 µl of whole blood or 10e6 cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human thymocytes.
Specificity:	The antibody HI149 reacts with CD1a (T6), a 49 KDa polypeptide associated with β2-microglobulin expressed on cortical thymocytes (strongly), Langerhans cells, dendritic cells and some T cell leukemias and lymphomas. The antibody does not react with peripheral blood T and B lymphocytes, monocytes, granulocytes, platelets and erythrocytes.
Formulation:	PBS containing 15 mM sodium azide as preservative and 0.2% (w/v) high-grade BSA (Protease free) as stabilizer. Label: PE State: Liquid purified IgG fraction. Label: Conjugated with R-Phycoerythrin under optimum conditions
Purification:	Size-exclusion chromatography.
Conjugation:	PE
Storage:	Store the antibody in the dark at 2-8°C. Do Not Freeze! Avoid prolonged exposure to light.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD1a molecule



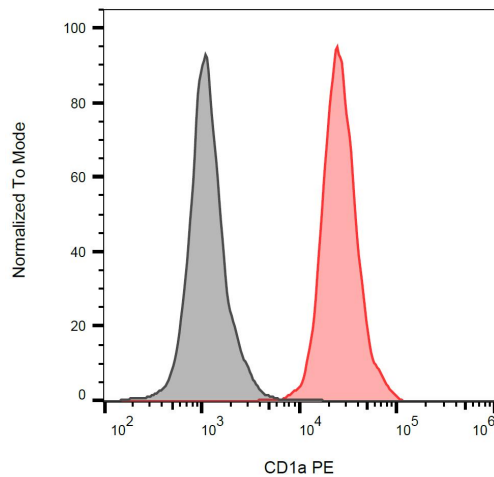
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Database Link: [Entrez Gene 909 Human P06126](#)

Background: CD1a, together with CD1b and c, belongs to group 1 of CD1 glycoproteins. These proteins serve as antigen-presenting molecules for a subset of T cells that responds to specific lipids and glycolipids found in the cell walls of bacterial pathogens or self-glycolipid antigens such as gangliosides, and they have also roles in antiviral immunity. Unlike CD1b, CD1a is excluded from late endosomal compartments and instead traffics independently in the recycling pathway of the early endocytic system, and CD1a antigen presentation is independent upon vesicular acidification.

Synonyms: T6/Leu-6, hTa1

Product images:



Detection of human CD1a on the surface of MOLT-4 cells using anti-human CD1a (HI149) PE.