

Product datasheet for **SM3086P**

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	HI149
Applications:	FC, IHC
Recommended Dilution:	Flow cytometry. Immunohistochemistry on frozen sections.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human thymocytes
Specificity:	The antibody reacts with CD1a (T6), a 49 KDa polypeptide associated with b2-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:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 State: Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Protein G-affinity chromatography; purity: > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD1a molecule
Database Link:	Entrez Gene 909 Human P06126



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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