Product datasheet for AM00518PU-S

CD1B Mouse Monoclonal Antibody [Clone ID: 100-1A5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	100-1A5
Applications:	IF, IHC
Recommended Dilution:	**Flow Cytometry** (1). **Immunofluorescence.** **Immunohistochemistry on Frozen Sections** *Positive Control:* Human lymphocytes.
Reactivity:	Human
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
Immunogen:	Stimulated Human leucocytes. Splenocytes were fused with mouse myeloma NS1 cells.
Specificity:	*100-1A5* binds with CD1b which is a 45 kD membrane glycoprotein expressed together with beta-2 Microglobulin. This antibody reacts with cortical thymocytes, Langerhans cells interdigitating cells and with pyramidal cells in the brain. It can be applied for characterization of leukemia's and lymphomas. *Cellular Localization:* Cell membrane and cytoplasm.
Formulation:	PBS State: Purified State: Liquid purified Ig fraction Preservative: 0.05% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C
Stability:	Shelf life: One year from despatch.
Predicted Protein Size:	45 kDa

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Gene Name:	CD1b molecule
Database Link:	<u>Entrez Gene 910 Human</u>
	<u>P29016</u>
Background:	CD1b which is associated with β2 microglobulin (1) is expressed on cortical thymocytes (moderate), Langerhans cells, interdigitating cells and brain pyramidal cells (1). It is up-regulated in peripheral neuropathy and inflammatory diseases (2,3). CD1b is the member of CD1 family. At least five CD1 genes (CD1a, b, c, d, and e) are identified (1). Unlike other members in CD1 family which have multiple splicing patterns, CD1b only revealed a single membrane RNA product (1). CD1 proteins including CD1b have been demonstrated to restrict T-cell response to non-peptide lipid and glycolipid antigens and play a role in non-classical antigen presentation (4)
Synonyms:	CD1; CD1A; MGC125990; MGC125991; R1