

CD1d Antibody | anti-CD1d antibody

Anti-Hu CD1d PE

CATALOG # AAA129286	REACTIVITY Human, Non-human primates	APPLICATIONS Flow Cytometry, Functional Assay
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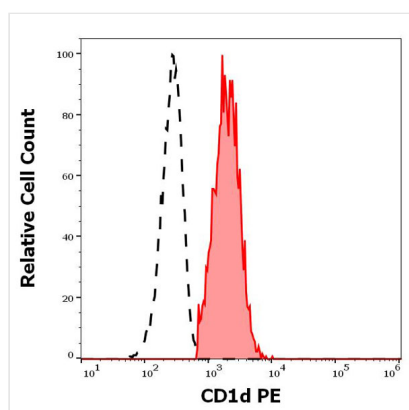
PRODUCT SYNONYMS

CD1d; Anti-Hu CD1d PE; CD1d molecule; N/A; anti-CD1d antibody

PRODUCT SPECIFICATIONS

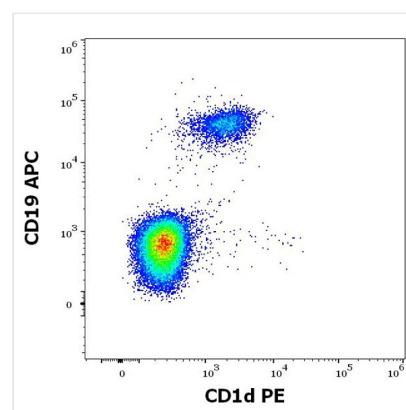
Reactivity	Human, Non-human primates
Isotype	Mouse IgG2b kappa
Clone Number	51.1
Specificity	The mouse monoclonal antibody 51.1 recognizes an extracellular epitope of CD1d, a 38 kDa transmembrane glycoprotein expressed mainly on cortical thymocytes, marginal zone B cells and other antigen presenting cells, but also i e.g. hepatitis C virus-infected livers.
Form/Format	PE Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Applicable Applications for anti-CD1d antibody	FCM/FACS (Flow Cytometry)
Immunogen	human CD1d
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



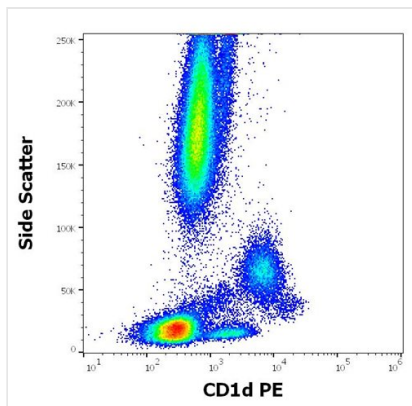
FCM/FACS (Flow Cytometry)

Separation of human CD1d positive CD19 positive lymphocytes (red-filled) from CD1d negative CD19 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD1d (51.1) PE antibody (10 ?l reagent / 100 ?l of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry multicolor surface staining of human gated lymphocytes stained using anti-human CD1d (51.1) PE antibody (10 ?l reagent / 100 ?l of peripheral whole blood) and anti-human CD19 (LT19) APC antibody (10 ?l reagent / 100 ?l of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD1d (51.1) PE antibody (10 µl reagent / 100 µl of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-CD1d antibody	CD1d belongs to CD1 family of transmembrane glycoproteins, associated with beta2 microglobulin, similarly to MHC I molecules. Unlike other CD1 family members, however, CD1d can be also expressed in a non-glycosylated form, which is not associated with beta2 microglobulin. Hence it is not certain how much CD1d plays a role in the presentation of microbial lipid antigens during infection. On the other hand, it is expressed on various antigen presenting cell types. Besides it, CD1d+ thymocytes are involved in the positive selection of sublineage of NKT cells.
References	*Kim HS, Garcia J, Exley M, Johnson KW, Balk SP, Blumberg RS: Biochemical characterization of CD1d expression in the absence of beta2-microglobulin. J Biol Chem. 1999 Apr 2;274(14):9289-95., URL: https://pubmed.ncbi.nlm.nih.gov/10092605/ ,*Durante-Mangoni E, Wang RJ, Shaulov A, He Q, Nasser I, Afdhal N, Koziel MJ, Exley MA: Hepatic CD1d expression in hepatitis C virus infection and recognition by resident proinflammatory CD1d-reactive T cells. J Immunol. 2004 Aug 1;173(3):2159-66., URL: https://pubmed.ncbi.nlm.nih.gov/15265953/ ,

NCBI AND UNIPROT INFORMATION

NCBI GI #	115964
NCBI GeneID	912
UniProt Accession #	P15813 ; Q5W0J3 ; Q9UMM3 ; Q9Y5M4 ; D3DVD5
Molecular Weight	335
NCBI Official Full Name	Antigen-presenting glycoprotein CD1d
NCBI Official Synonym Full Names	CD1d molecule
NCBI Official Symbol	CD1D
NCBI Official Synonym Symbols	R3; CD1A
NCBI Protein Information	antigen-presenting glycoprotein CD1d; R3G1; thymocyte antigen CD1D; CD1D antigen, d polypeptide; T-cell surface glycoprotein CD1d; differentiation antigen CD1-alpha-3; HMC class I antigen-like glycoprotein CD1D
UniProt Protein Name	Antigen-presenting glycoprotein CD1d
UniProt Gene Name	CD1D
UniProt Entry Name	CD1D_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.