

CD1d Antibody | anti-CD1d antibody

Anti-Hu CD1d Purified

CATALOG #	REACTIVITY	APPLICATIONS
AAA129285	Human, Non-human primates	Immunohistochemistry, Immunoprecipitation, Flow Cytometry, Functional Assay, Western Blot

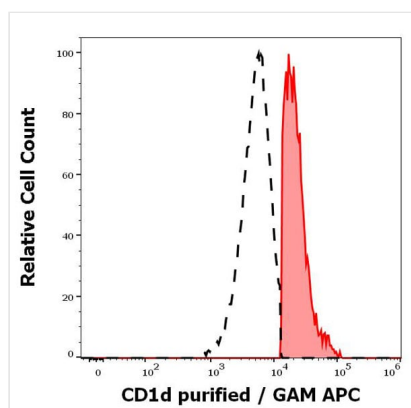
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

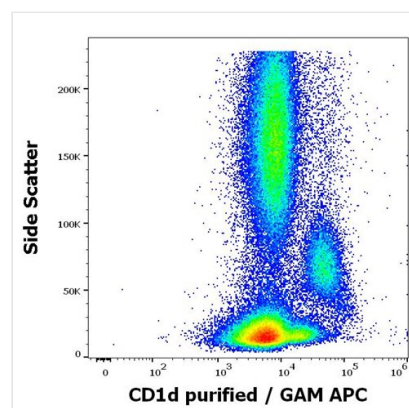
Reactivity	Human, Non-human primates
Isotype	Mouse IgG2b kappa
Clone Number	51.1
Specificity	The mouse monoclonal antibody 51.1 recognizes an extracellular epitope of CD1d, a 38 kDa transmembrane glycoprotein expressed mainly on cortical thymocytes, marginal zone B cells and other antigen presenting cells, but also i e.g. hepatitis C virus-infected livers.
Form/Format	Purified Purified by protein-A affinity chromatography. Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CD1d antibody	IHC (Immunohistochemistry), IP (Immunoprecipitation), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	human CD1d
Preparation and Storage	Store at 2-8 degree C. Do not freeze.

IMAGES



FCM/FACS (Flow Cytometry)

Separation of human CD1d positive lymphocytes (red-filled) from human CD1d negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of peripheral whole blood stained using anti-human CD1d (51.1) purified antibody (concentration in sample 5 ?g/ml, GAM APC).



FCM/FACS (Flow Cytometry)

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD1d (51.1) purified antibody (concentration in sample 5 ?g/ml, GAM APC).

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.