

For Research Use Only

CD1c Recombinant monoclonal antibody

Catalog Number: 87145-2-RR



Basic Information

Catalog Number: 87145-2-RR	GenBank Accession Number: GeneID (NCBI): 911	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	UNIPROT ID: P29017	CloneNo.: 252399G7
Source: Rabbit	Full Name: CD1c molecule	Recommended Dilutions: WB: 1:500-1:2000 IHC: 1:50-1:500 IF/ICC: 1:250-1:1000
Isotype: IgG	Observed MW: 38 kDa	
Immunogen Catalog Number: EG9187		

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Species Specificity: human	WB : Jurkat cells, MOLT-4 cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human tonsillitis tissue, IF/ICC : Jurkat cells,

Background Information

CD1c molecule (CD1c, also known as R7, CD1, CD1A, and BDCA1) is a member of the CD1 family of transmembrane glycoproteins, which is synthesized in the endoplasmic reticulum and expressed on the monocytes, marginal zone B cells in lymph nodes as well as peripheral blood (PMID: 23468110). The CD1 proteins belong to the family of major histocompatibility complex (MHC) class I-like proteins that present lipid-based antigens to T cells (PMID: 15032598; 23127489). CD1c shows interaction with both αβ or γδ T cells and mediates T cell responses against mycobacterium tuberculosis (PMID: 10727456; 10786796).

Storage

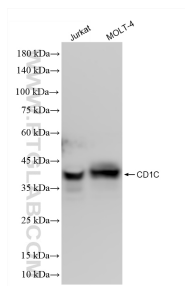
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

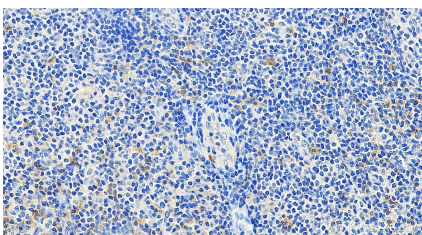
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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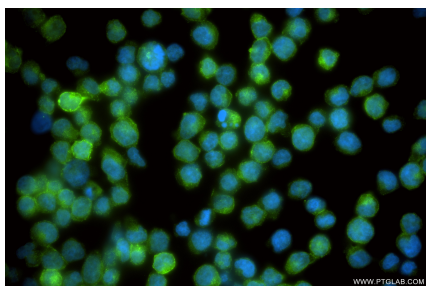
Selected Validation Data



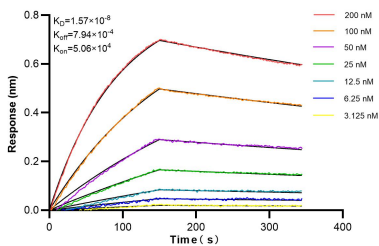
Various lysates were subjected to SDS PAGE followed by western blot with 87145-2-RR (CD1c antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 87145-2-RR (CD1c antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using CD1c antibody (87145-2-RR, Clone: 252399G7) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 87145-2-RR against Human CD1c were performed. The affinity constant is 15.7 nM.