

For Research Use Only

CD2 Recombinant antibody, PBS Only (Capture)

Catalog Number: 84108-5-PBS



Basic Information

Catalog Number: 84108-5-PBS	GenBank Accession Number: BC033583	Purification Method: Protein A purification
Concentration: 1 mg/ml	GeneID (NCBI): 914	CloneNo.: 24122288
Source: Rabbit	ENSEMBL Gene ID: ENSG00000116824	
Isotype: IgG	UNIPROT ID: P06729	
Immunogen Catalog Number: EG1271	Full Name: CD2 molecule	
	Calculated MW: 351 aa, 39 kDa	
	Observed MW: 50 kDa	

Applications

Tested Applications:
WB, IF/ICC, Sandwich ELISA, Indirect ELISA, Sample test

Species Specificity:
human

Background Information

CD2 is a cell surface glycoprotein present on a majority of thymocytes, all mature T cells and subset of NK cells but not on B lymphocytes. It is a pan T-cell marker. CD2 interacts with lymphocyte function-associated antigen (LFA-3/CD58) and CD48/BCM1 to mediate adhesion between T-cells and other cell types. CD2 is implicated in the triggering of T-cells, the cytoplasmic domain is implicated in the signaling function.

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:

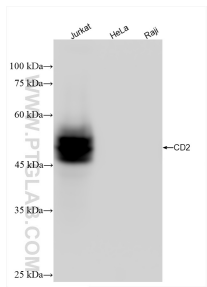
T: 4006900926

E: Proteintech-CN@ptglab.com

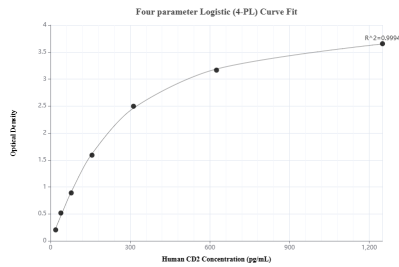
W: ptgcn.com

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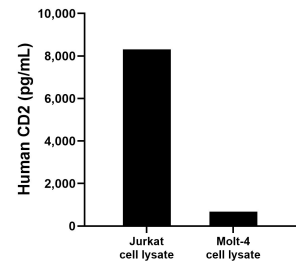
Selected Validation Data



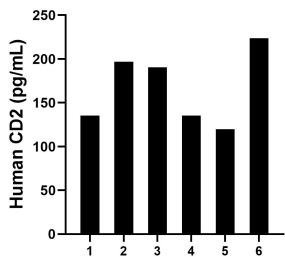
Various lysates were subjected to SDS PAGE followed by western blot with 84108-5-RR (CD2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84108-5-PBS in a different storage buffer formulation.



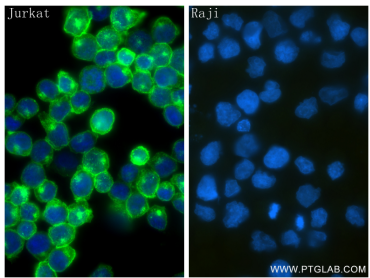
Sandwich ELISA standard curve of MP01045-4, Human CD2 Recombinant Matched Antibody Pair - PBS only. 84108-5-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg1271. 84108-3-PBS was HRP conjugated as the detection antibody. Range: 19.5-1250 pg/mL



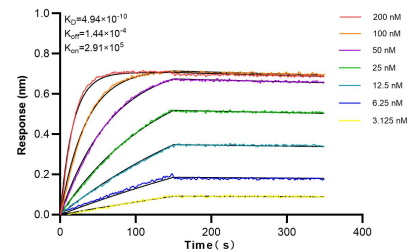
Jurkat and Molt-4 cell lysate were measured. The human CD2 concentration of detected samples was determined to be 8,318.1 pg/mL (based on a 1.0 mg/mL extract load) in Jurkat cell lysate and 679.3 pg/mL (based on a 4.5 mg/mL extract load) in Molt-4 cell lysate.



Serum of six individual healthy human donors was measured. The human CD2 concentration of detected samples was determined to be 167.0 pg/mL with a range of 119.9 - 223.9 pg/mL.



Immunofluorescent analysis of (4% PFA) fixed Jurkat (positive) Raji (negative) cells using CD2 antibody (84108-5-RR, Clone: 241222B8) at dilution of 1:500 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 84108-5-PBS in a different storage buffer formulation.



Bi-layer interferometry (BLI) kinetic assays of 84108-5-RR against Human CD2 were performed. The affinity constant is 0.494 nM.