

For Research Use Only

CD53 Recombinant antibody

Catalog Number: 84837-1-RR



Basic Information

Catalog Number: 84837-1-RR	GenBank Accession Number: NM_000560.4	Purification Method: Protein A purification
Concentration: 1000 µg/ml	GeneID (NCBI): 963	CloneNo.: 242038C5
Source: Rabbit	UNIPROT ID: P19397	Recommended Dilutions: WB 1:2000-1:12000 IHC 1:500-1:2000 IF/ICC 1:250-1:1000
Isotype: IgG	Full Name: CD53 molecule	
Immunogen Catalog Number: EG2182	Calculated MW: 24kDa Observed MW: 40 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls: WB : Jurkat cells, Ramos cells, IM-9 cells IHC : human tonsillitis tissue, IF/ICC : Jurkat cells, Daudi cells
Species Specificity: human	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

CD53 is also named as MOX44 and Tetraspanin-25 (Tspan-25). Tetraspanin CD53 is a member of the tetraspanin superfamily expressed exclusively within the immune compartment (PMID: 32440787). T cells depend on the phosphatase CD45 to initiate T cell receptor signaling. CD53 is shown to stabilize CD45 on the membrane and is required for optimal phosphatase activity and subsequent Lck activation. Together, CD53 as a regulator of CD45 activity required for T cell immunity (PMID: 35767951). CD53 is a marker for positively selected CD4+ CD8+ thymocytes (PMID: 11867561).

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

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

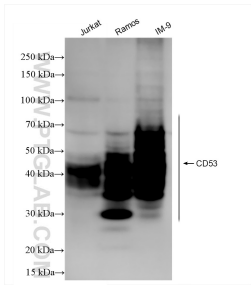
T: 4006900926

E: Proteintech-CN@ptglab.com

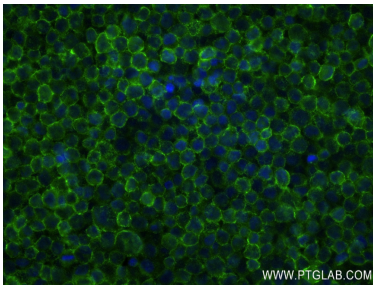
W: ptgcn.com

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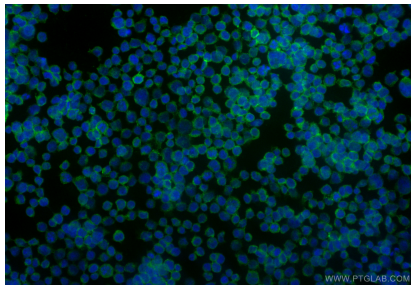
Selected Validation Data



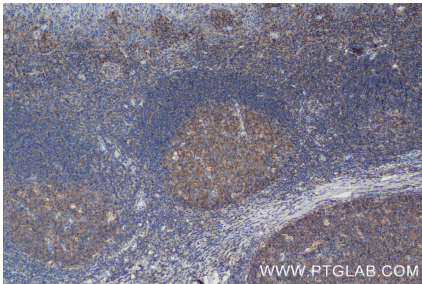
Various lysates were subjected to SDS PAGE followed by western blot with 84837-1-RR (CD53 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



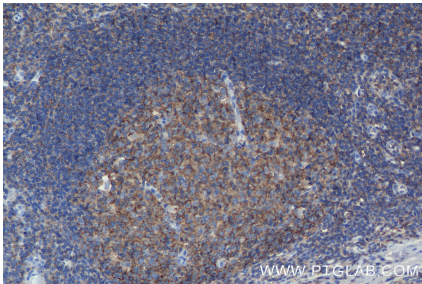
Immunofluorescent analysis of (4% PFA) fixed Daudi cells using CD53 antibody (84837-1-RR, Clone: 242038C5) at dilution of 1:250 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



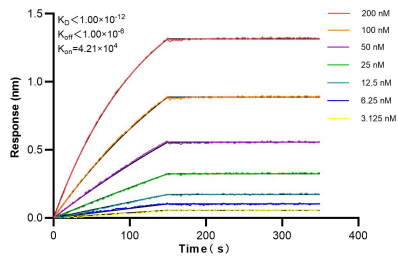
Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using CD53 antibody (84837-1-RR, Clone: 242038C5) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 84837-1-RR (CD53 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 84837-1-RR (CD53 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Bilayer interferometry (BLI) kinetic assays of 84837-1-RR against Human CD53 were performed. The affinity constant is below 1 pM.