

For Research Use Only

CD53 Recombinant antibody

Catalog Number: 85838-3-RR



Basic Information

Catalog Number:	85838-3-RR	GenBank Accession Number:	NM_007651.3	Purification Method:	Protein A purification
Concentration:	1000 µg/ml	GenID (NCBI):	12508	CloneNo.:	250105D10
Source:	Rabbit	UNIPROT ID:	Q61451	Recommended Dilutions:	WB: 1:500-1:2000 IHC: 1:1000-1:4000 IF/ICC: 1:250-1:1000
Isotype:	IgG	Full Name:	CD53 antigen		
Immunogen Catalog Number:	EG2684	Calculated MW:	24 kDa		
		Observed MW:	35-40 kDa		

Applications

Tested Applications:	WB, IHC, IF/ICC, ELISA	Positive Controls:	
Species Specificity:	mouse	WB:	RAW 264.7 cells,
		IHC:	mouse spleen tissue,
		IF/ICC:	A20 cells,

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

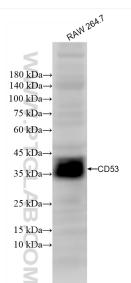
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com

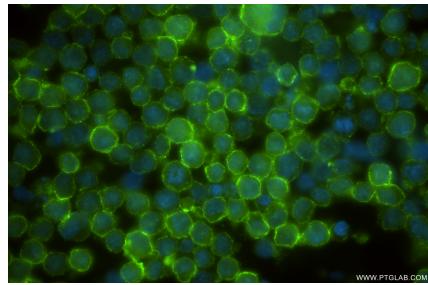
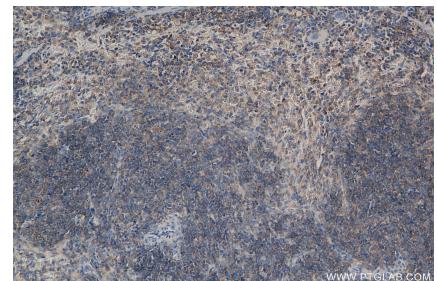
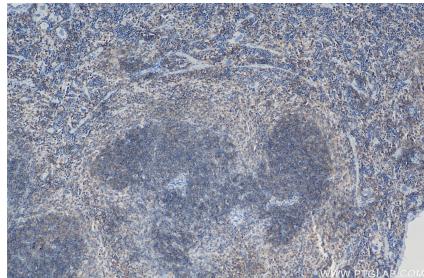
W: ptgcn.com

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Selected Validation Data



RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 85838-3-RR (CD53 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed A20 cells using Cd53 antibody (85838-3-RR, Clone: 250105D10) at dilution of 1:500 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).