

For Research Use Only

CoraLite® Plus 488-conjugated CD53 Recombinant antibody

Catalog Number:CL488-84837



Basic Information

Catalog Number: CL488-84837	GenBank Accession Number: NM_000560.4	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 963	CloneNo.: 242038C5
Source: Rabbit	UNIPROT ID: P19397	Recommended Dilutions: IF/ICC: 1:50-1:500
Isotype: IgG	Full Name: CD53 molecule	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: EG2182	Calculated MW: 24kDa	
	Observed MW: 40 kDa	

Applications

Tested Applications: IF/ICC	Positive Controls: IF/ICC : Daudi cells,
Species Specificity: human	

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. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

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

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed Daudi cells using CoraLite® Plus 488 CD53 antibody (CL488-84837, Clone: 242038C5) at dilution of 1:200.