

For Research Use Only

# CoraLite® Plus 647-conjugated CD53 Recombinant antibody

Catalog Number: CL647-84837



## Basic Information

Catalog Number:

CL647-84837

Concentration:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG2182

GenBank Accession Number:

NM\_000560.4

GeneID (NCBI):

963

UNIPROT ID:

P19397

Full Name:

CD53 molecule

Calculated MW:

24kDa

Observed MW:

40 kDa

Purification Method:

Protein A purification

CloneNo.:

242038C5

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maxima  
wavelengths:

654 nm / 674 nm

## Applications

Tested Applications:

IF/ICC

Species Specificity:

human

Positive Controls:

IF/ICC : Jurkat cells,

## 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<sup>+</sup> CD8<sup>+</sup> 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: 4006900926

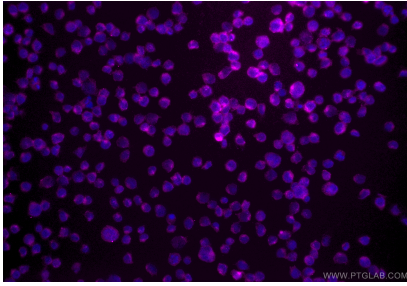
E: Proteintech-CN@ptglab.com

W: ptgcn.com

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using CoraLite® Plus 647 CD53 antibody (CL647-84837, Clone: 242038C5 ) at dilution of 1:200.