

For Research Use Only

# CD53 Recombinant antibody

Catalog Number: 84837-1-RR



## Basic Information

Catalog Number:

84837-1-RR

Size:

100ul , Concentration: 1000 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

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:

WB 1:2000-1:12000

IF/ICC 1:125-1:500

## Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

human

Positive Controls:

WB : Jurkat cells, Ramos cells, IM-9 cells

IF/ICC : Daudi 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. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

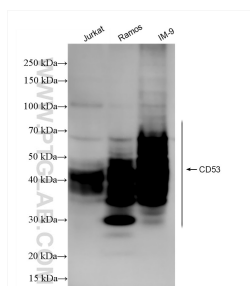
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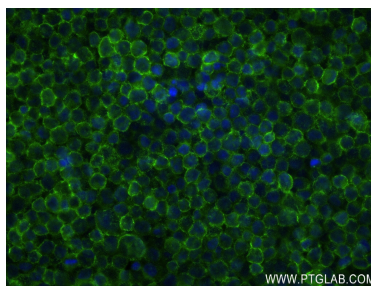
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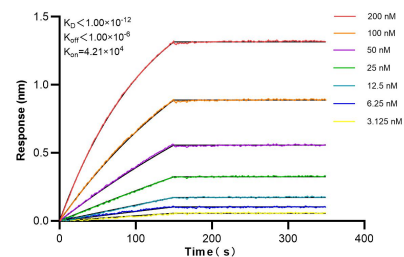
## Selected Validation Data



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).



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