

For Research Use Only

Anti-Human CD45 (HI30)

Catalog Number: 65109-1-Ig **2 Publications**



Basic Information

Catalog Number:

65109-1-Ig

Size:

500ug, 0.5 mg/ml

Source:

Mouse

Isotype:

IgG1, kappa

GenBank Accession Number:

BC014239

GeneID (NCBI):

5788

ENSEMBL Gene ID:

ENSG00000081237

UNIPROT ID:

P08575

Full Name:

protein tyrosine phosphatase,
receptor type, C

Purification Method:

Affinity purification

CloneNo.:

HI30

Recommended Dilutions:

IF/ICC: 1:250-1:1000

FC: 0.25 ug per 10⁶ cells in a 100 µl
suspension

Applications

Tested Applications:

IF/ICC, FC

Cited Applications:

IF, FC

Species Specificity:

human

Cited Species:

human

Positive Controls:

IF/ICC : Jurkat cells,

FC : human PBMCs,

Background Information

CD45, also known as protein tyrosine phosphatase, receptor type C, is a type I transmembrane protein expressed on the surface of all haematopoietic cells with the exception of erythrocytes and platelets (PMID: 3489673; 28615666). CD45 is a pan-haematopoietic cell marker and has been shown to be essential for T- and B-cell activation and signalling (PMID: 9429890; 16378097).

Notable Publications

Author	Pubmed ID	Journal	Application
Xun Xi	35071244	Front Cell Dev Biol	FC
Min Tang	38594259	Cell Discov	IF

Storage

Storage:

Store at 2-8°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

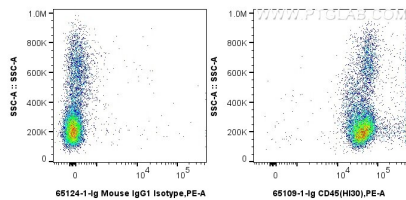
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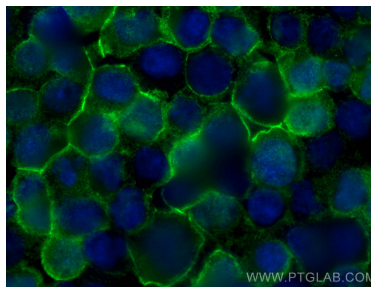
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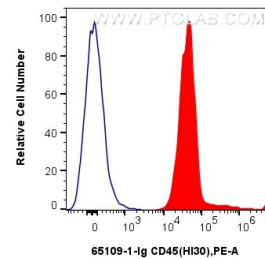
Selected Validation Data



1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD45 (HI30) (65109-1-Ig, Clone: HI30) or Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21), and PE-conjugated Goat Anti-Mouse IgG. Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using CD45 antibody (65109-1-Ig, Clone: HI30) at dilution of 1:500 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD45 (HI30) (65109-1-Ig, Clone: HI30) (red) or Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue), and PE-conjugated Goat Anti-Mouse IgG. Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.