For Research Use Only

Anti-Human CD45 Rabbit Recombinant Antibody

Catalog Number:98117-1-RR 3 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
98117-1-RR

Concentration:
100ug, 1000 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
EG2486

GenBank Accession Number:
NM_002838.4

GeneID (NCBI):
5788

ENSEMBL Gene ID:
ENSG00000081237

UNIPROT ID:
P08575

Full Name:
protein tyrosine phosphatase, receptor type, C

Calculated MW:
147 kDa

Purification Method:
Protein A purification

CloneNo.:
241670E10

Recommended Dilutions:
IHC: 1:250-1:1000
IF/ICC: 1:125-1:500
FC: 0.25 ug per 10^6 cells in 100 μl suspension

Applications

Tested Applications:
IHC, IF/ICC, FC

Cited Applications:
IF, FC

Species Specificity:
human

Cited Species:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IHC : human tonsil tissue,

IF/ICC : Jurkat cells,

FC : human peripheral blood leukocytes,

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
Guang-shun Sun	41907408	iScience	IF
Zixuan Li	41740230	EBioMedicine	
Zi-Feng Zeng	41480403	World J Stem Cells	FC

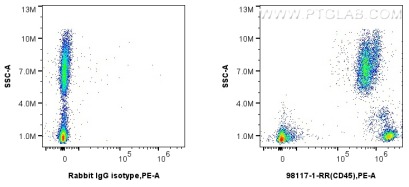
Storage

Storage:
Store at 2 - 8°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide, pH7.3

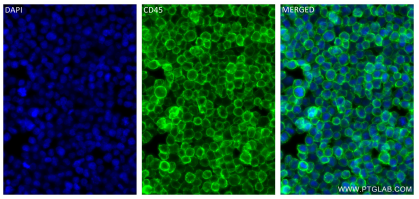
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

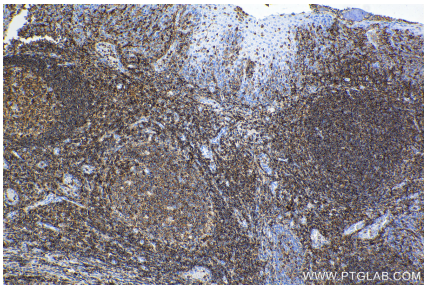
Selected Validation Data



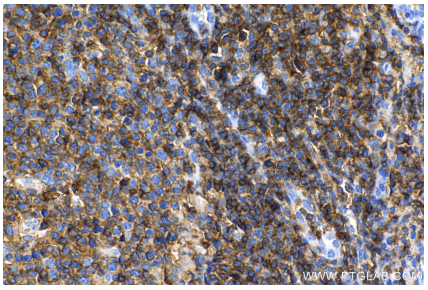
1x10^6 human peripheral blood leukocytes were surface stained with 0.25 ug Anti-Human CD45 Rabbit Recombinant Antibody (98117-1-RR, Clone: 241670E10) or 0.25 ug Isotype Control, and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.



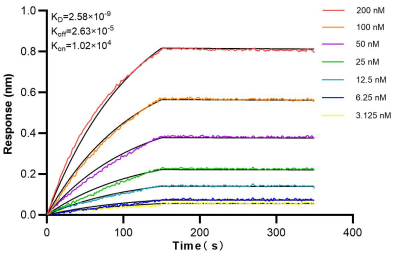
Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using CD45 antibody (98117-1-RR, Clone: 241670E10) at dilution of 1:250 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunohistochemical analysis of paraffin-embedded human tonsil tissue slide using 98117-1-RR (CD45 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsil tissue slide using 98117-1-RR (CD45 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 98117-1-RR against Human CD45 were performed. The affinity constant is 2.58 nM.