

For Research Use Only

APC Anti-Human CD45RA (HI100)

Catalog Number: APC-65108



Basic Information

Catalog Number:

APC-65108

Size:

100 tests, 5 µl/test

Source:

Mouse

Isotype:

IgG2b, 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.:

HI100

Recommended Dilutions:

IF-P 1:10-1:100

IF/ICC 1:150-1:600

Excitation/Emission maxima
wavelengths:

650 nm / 660 nm

Applications

Tested Applications:

IF/ICC, IF-P, FC

Species Specificity:

human

Positive Controls:

IF-P : human tonsillitis tissue,

IF/ICC : human peripheral blood mononuclear cells,

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). CD45 exists as multiple isoforms due to alternative splicing of three exons (4, 5, and 6, designated A, B, and C) in the extracellular domain (PMID: 12414720). CD45RA is expressed on naïve T cells, B cells, and monocytes (PMID: 1830500; 14687231).

Storage

Storage:

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide and 0.5% BSA.

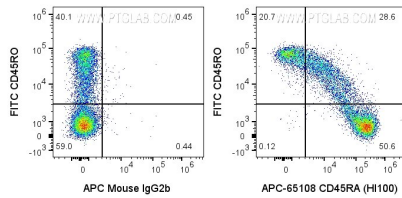
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

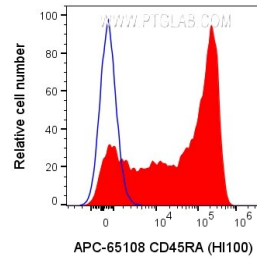
E: proteintech@ptglab.com
W: ptglab.com

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

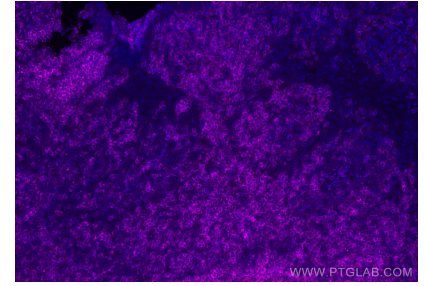
Selected Validation Data



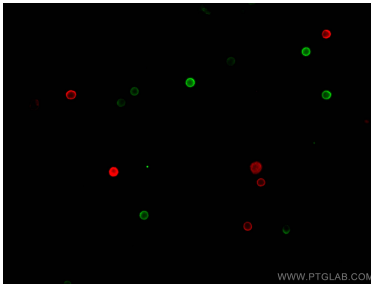
1x10⁶ human PBMCs were surface stained with FITC Anti-Human CD45RO (FITC-65150) and 5 ul APC Anti-Human CD45RA (APC-65108, Clone:HI100) or APC Mouse IgG2b Isotype Control (APC-65128, Clone: MPC-11). Cells were not fixed. Lymphocytes were gated.



1x10⁶ human PBMCs were surface stained with 5 ul APC Anti-Human CD45RA (APC-65108, Clone:HI100) or APC Mouse IgG2b Isotype Control (APC-65128, Clone: MPC-11). Cells were not fixed. Lymphocytes were gated.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human tonsillitis tissue using APC CD45RA antibody (APC-65108, Clone: HI100) at dilution of 1:10. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of human peripheral blood mononuclear cells (PBMCs) using APC Anti-Human CD45RA (APC-65108, Clone: HI100) and CoraLite®488-conjugated Anti-Human CD45RO (CL488-65150, Clone: UCHL1) at dilution of 1:300.