

For Research Use Only

# Anti-Human CD45RO (UCHL1) Mouse IgG2a Recombinant Antibody

Catalog Number: 65613-1-MR



## Basic Information

<b>Catalog Number:</b> 65613-1-MR	<b>GenBank Accession Number:</b> BC014239	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, 1 mg/ml	<b>GeneID (NCBI):</b> 5788	<b>CloneNo.:</b> UCHL1
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000081237	<b>Recommended Dilutions:</b> IHC 1:600-1:2400
<b>Isotype:</b> IgG2a	<b>Full Name:</b> protein tyrosine phosphatase, receptor type, C	

## Applications

<b>Tested Applications:</b> IHC, FC	<b>Positive Controls:</b> IHC : human tonsillitis tissue,
<b>Species Specificity:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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). CD45RO is the shortest CD45 isoform (lacking all three exons) and is expressed by activated and memory T cells, thymocytes, some B cells, and weakly on granulocytes and macrophage (PMID: 27100180; 12414720).

## Storage

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

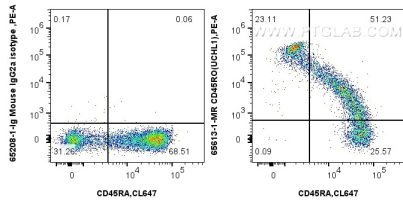
For technical support and original validation data for this product please contact:

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

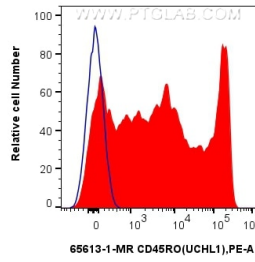
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

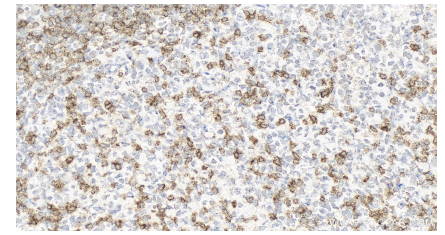
## Selected Validation Data



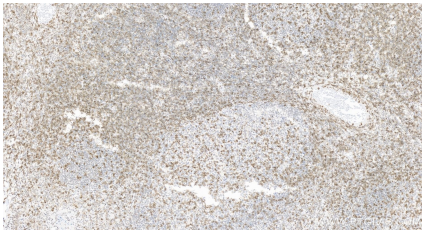
1x10<sup>6</sup> human PBMCs were surface stained with 0.25 ug Anti-Human CD45RO (UCHL1) Mouse IgG2a RecAb (65613-1-MR, Clone:UCHL1) or Mouse IgG2a Isotype Control (C1.18.4) (65208-1-Ig, Clone: C1.18.4), and PE-conjugated Goat Anti-Mouse IgG. Cells were co-stained with CoraLite® Plus 647 Anti-Human CD45RA (HI100) (CL647-65108, Clone: HI100). Cells were not fixed.



1x10<sup>6</sup> human PBMCs were surface stained with 0.25 ug Anti-Human CD45RO (UCHL1) Mouse IgG2a RecAb (65613-1-MR, Clone: UCHL1) (red) or Mouse IgG2a Isotype Control (C1.18.4) (65208-1-Ig, Clone: C1.18.4) (blue), and PE-conjugated Goat Anti-Mouse IgG. Cells were not fixed.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 65613-1-MR (CD45RO antibody) at dilution of 1:1200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 65613-1-MR (CD45RO antibody) at dilution of 1:1200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).