

For Research Use Only

# CD45 Recombinant antibody

Catalog Number: 83396-12-RR



## Basic Information

Catalog Number:	83396-12-RR	GenBank Accession Number:	NM_001111316.2	Purification Method:	Protein A purification
Size:	1000 ug/ml	GenID (NCBI):	19264	CloneNo.:	240920F7
Source:	Rabbit	UNIPROT ID:	P06800-4	Recommended Dilutions:	WB 1:1000-1:4000 IF/ICC 1:125-1:500
Isotype:	IgG	Full Name:	protein tyrosine phosphatase, receptor type, C		
		Calculated MW:	145 kDa		
		Observed MW:	220 kDa		

## Applications

Tested Applications:	WB, IF/ICC, ELISA	Positive Controls:	
Species Specificity:	mouse	WB:	J774A.1 cells,

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IF/ICC: RAW 264.7 cells,

## Background Information

CD45, also known as leukocyte common antigen (LCA), B220, and T200, is a 180-240 kD single-chain type I membrane glycoprotein. It is a tyrosine phosphatase expressed on the plasma membrane of all hematopoietic cells, except erythrocytes and platelets. CD45 is a signaling molecule that regulates various cellular processes including cell growth, differentiation, cell cycle, and oncogenic transformation. CD45 is one of the best negative selection markers for characterizing and/or isolating human mesenchymal stem cells from bone marrow and other sources. Along with the positive selection markers (such as CD29, CD44, CD90, CD105, and CD166), negative selection markers (such as CD34 and CD45) are used for MSC identification.

## 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**

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

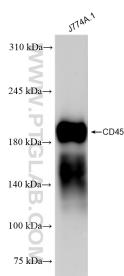
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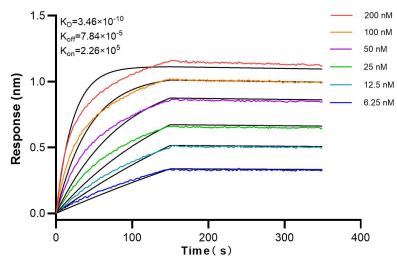
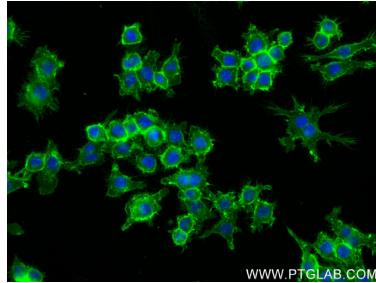
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## Selected Validation Data



J774A.1 cells were subjected to SDS PAGE followed by western blot with 83396-12-RR (CD45/PTPRC antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 83396-12-RR against Mouse CD45/PTPRC were performed. The affinity constant is 0.346 nM.