

For Research Use Only

# Mouse CD157 Recombinant antibody, PBS Only

Catalog Number: 84417-5-PBS



## Basic Information

<b>Catalog Number:</b> 84417-5-PBS	<b>GenBank Accession Number:</b> GeneID (NCBI): 12182	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>UNIPROT ID:</b> Q64277	<b>CloneNo.:</b> 241822F10
<b>Source:</b> Rabbit	<b>Full Name:</b> bone marrow stromal cell antigen 1	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 35kDa	
	<b>Observed MW:</b> 40-46 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, Indirect ELISA

**Species Specificity:**  
mouse

## Background Information

CD157 is a glycosyl phosphatidylinositol-anchored protein that stimulates pre-B-cell growth and has adenosine diphosphate (ADP)-ribosyl cyclase and cyclic ADP-ribose (cADPR) hydrolase activity (PMID: 9473467, 11866528). The two enzymatic activities are responsible for the synthesis and hydrolysis of cADPR, a novel second messenger of calcium release from intracellular calcium stores. CD157 has a calculated molecular mass of 30-36 kDa and an apparent molecular mass of 40-46 kDa due to glycosylation (PMID: 8941363, 10491089).

## Storage

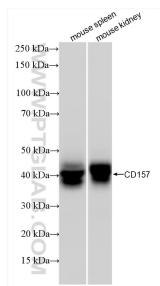
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

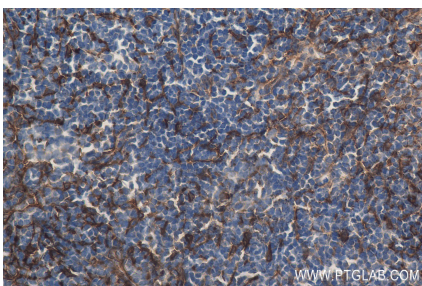
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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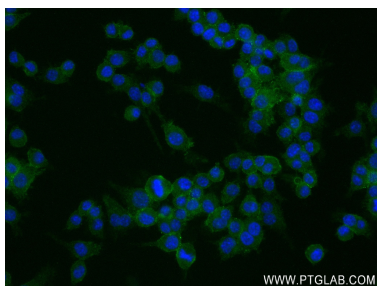
## Selected Validation Data



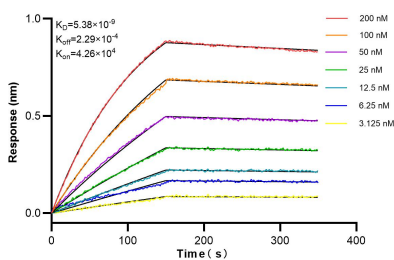
Various lysates were subjected to SDS PAGE followed by western blot with 84417-5-RR (CD157 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84417-5-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 84417-5-RR (CD157 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84417-5-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed RAW 264.7 cells using CD157 antibody (84417-5-RR, Clone: 241822F10) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 84417-5-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 84417-5-RR against Mouse CD157 were performed. The affinity constant is 5.36 nM.