

For Research Use Only

# Mouse CD83 Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number: 83907-5-PBS



## Basic Information

<b>Catalog Number:</b> 83907-5-PBS	<b>GenBank Accession Number:</b> GeneID (NCBI): 12522	<b>Purification Method:</b> Protein A purification
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O88324	<b>CloneNo.:</b> 252734F1
<b>Isotype:</b> IgG	<b>Full Name:</b> CD83 antigen	
<b>Immunogen Catalog Number:</b> EG10435	<b>Observed MW:</b> 50 kDa	

## Applications

**Tested Applications:**  
WB, Sandwich ELISA, Indirect ELISA

**Species Specificity:**  
human, mouse

## Background Information

CD83 is a member of the immunoglobulin (Ig) superfamily, consisting of an extracellular V-type Ig-like domain, a transmembrane domain, and a cytoplasmic tail. CD83 is one of the most prominent markers for fully matured dendritic cells (DCs) (PMID: 17334966). It is also found on the surface of other activated hematopoietic cells, including lymphocytes, monocytes, macrophages, and neutrophils (PMID: 31231400; 17334966). CD83 regulates the maturation, activation, and homeostasis of numerous immune cells (PMID: 31231400; 32362900). CD83 can also be expressed as a soluble form. Soluble CD83 can bind to DCs and inhibit their maturation (PMID: 17334966; 12403928). PNGase F (peptide N-glycosidase F) digestion reduced the 37 kDa and 50 kDa CD83 forms to 28 kDa (PMID: 15320871).

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS only, pH7.3

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

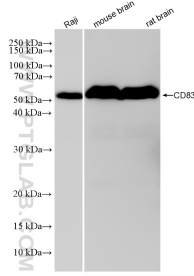
T: 4006900926

E: Proteintech-CN@ptglab.com

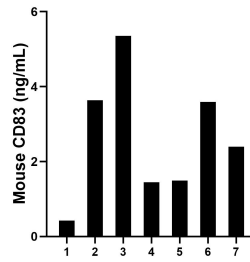
W: ptgcn.com

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

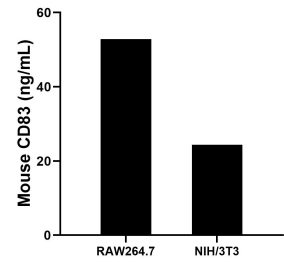
## Selected Validation Data



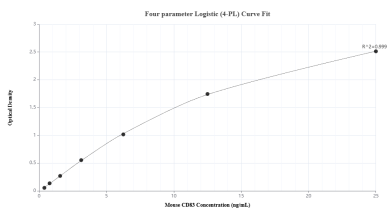
Various lysates were subjected to SDS PAGE followed by western blot with 83907-5-RR (CD83 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83907-5-PBS in a different storage buffer formulation.



Serum of seven mice was measured. The mouse CD83 concentration of detected samples was determined to be 2.47 ng/mL with a range of 0.42 - 5.36 ng/mL.



The mean CD83 concentration was determined to be 52.81 ng/mL in RAW264.7 cell extract based on a 1.2 mg/mL extract load and 24.42 ng/mL in NIH/3T3 cell extract based on a 1.2 mg/mL extract load.



Sandwich ELISA standard curve of MP00848-4, Mouse CD83 Recombinant Matched Antibody Pair - PBS only. 83907-6-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg10435. 83907-5-PBS was HRP conjugated as the detection antibody. Range: 0.39-25 ng/mL