

For Research Use Only

# CD83 Recombinant antibody, PBS Only (Detector)

Catalog Number: 84796-3-PBS



## Basic Information

<b>Catalog Number:</b> 84796-3-PBS	<b>GenBank Accession Number:</b> NM_004233.4	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 9308	<b>CloneNo.:</b> 241855G5
<b>Source:</b> Rabbit	<b>ENSEMBL Gene ID:</b> ENSG00000112149	
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> Q01151	
	<b>Full Name:</b> CD83 molecule	
	<b>Calculated MW:</b> 23 kDa	
	<b>Observed MW:</b> 40-45 kDa	

## Applications

**Tested Applications:**  
WB, Cytometric bead array, Sandwich ELISA, Indirect ELISA, Sample test

**Species Specificity:**  
human

## Product Information

84796-3-PBS targets CD83 as part of a matched antibody pair:

MP01570-1: 84796-1-PBS capture and 84796-3-PBS detection (validated in Cytometric bead array)

MP01570-3: 84796-4-PBS capture and 84796-3-PBS detection (validated in Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## 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).

## Storage

**Storage:**  
Store at -80°C.  
**Storage Buffer:**  
PBS Only

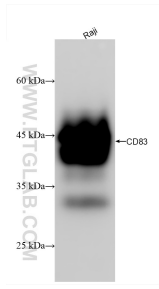
For technical support and original validation data for this product please contact:

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

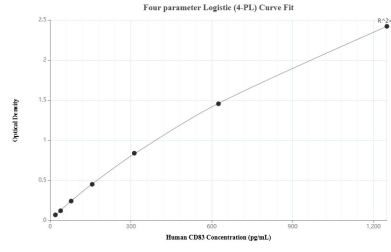
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

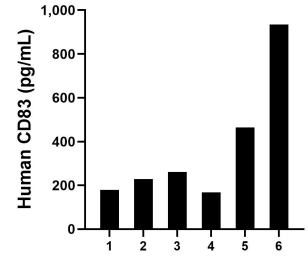
## Selected Validation Data



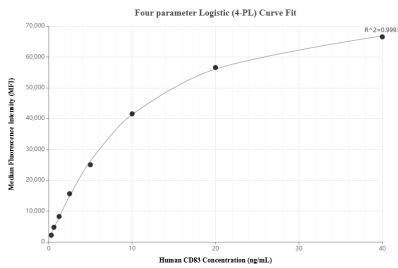
Various lysates were subjected to SDS PAGE followed by western blot with 84796-3-RR (CD83 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84796-3-PBS in a different storage buffer formulation.



Sandwich ELISA standard curve of MP01570-3, Human CD83 Recombinant Matched Antibody Pair - PBS only. 84796-4-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg2033. 84796-3-PBS was HRP conjugated as the detection antibody. Range: 19.5-1250 pg/mL



Serum of six individual healthy human donors was measured. The human CD83 concentration of detected samples was determined to be 372.6 pg/mL with a range of 167.8 - 934.1 pg/mL.



Cytometric bead array standard curve of MP01570-1, CD83 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84796-1-PBS. Detection antibody: 84796-3-PBS. Standard: Eg2033. Range: 0.313-40 ng/mL