

For Research Use Only

Mouse CD83 Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number: 83907-5-PBS



Basic Information

Catalog Number: 83907-5-PBS	GenBank Accession Number: GeneID (NCBI): 12522	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	UNIPROT ID: O88324	CloneNo.: 252734F1
Source: Rabbit	Full Name: CD83 antigen	
Isotype: IgG	Observed MW: 50 kDa	
Immunogen Catalog Number: EG10435		

Applications

Tested Applications:
WB, Sandwich ELISA, Indirect ELISA

Species Specificity:
human, mouse

Product Information

83907-5-PBS targets CD83 as part of a matched antibody pair:

MP00848-4: 83907-6-PBS capture and 83907-5-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). 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.

Storage Buffer:
PBS only, pH7.3

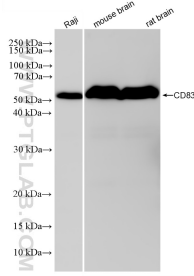
For technical support and original validation data for this product please contact:

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

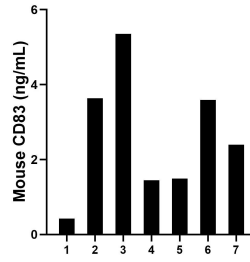
E: proteintech@ptglab.com
W: ptglab.com

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

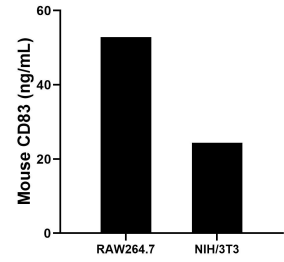
Selected Validation Data



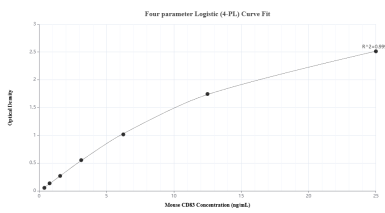
Various lysates were subjected to SDS PAGE followed by western blot with 83907-5-RR (CD83 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83907-5-PBS in a different storage buffer formulation.



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