

For Research Use Only



Mouse CD169 Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number: 86605-1-PBS

Basic Information

Catalog Number: 86605-1-PBS	GenBank Accession Number: NP_035556	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 20612	CloneNo.: 251348G9
Source: Rabbit	UNIPROT ID: Q62230-1	
Isotype: IgG	Full Name: sialic acid binding Ig-like lectin 1, sialoadhesin	
Immunogen Catalog Number: EG5002	Calculated MW: 183 kDa	
	Observed MW: 220 kDa	

Applications

Tested Applications:
WB, Cytometric bead array, Indirect ELISA

Species Specificity:
mouse

Product Information

86605-1-PBS targets CD169 as part of a matched antibody pair:

MP02539-1: 86605-1-PBS capture and 86605-2-PBS detection (validated in Cytometric bead array, 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

CD169, also known as sheep erythrocyte receptor (SER), Sialoadhesin (Sn) or Siglec-1, is a sialic acid-binding immunoglobulin-like lectin that belongs to the SIGLEC family of the Ig superfamily (PMID: 3783087; 11133773). CD169 is a single-pass transmembrane protein containing a long extracellular domain, a transmembrane region, and a short cytoplasmic tail (PMID: 11133773). It is primarily expressed on the surface of specific macrophage subsets and its precursor monocytes, as well as on some DCs (PMID: 33408860). CD169 binds to sialic acid-containing glycoconjugates, particularly those with $\alpha(2,3)$ -linkages. It is involved in immune regulation, pathogen recognition, and cell-cell interactions.

Storage

Storage:
Store at -80°C.

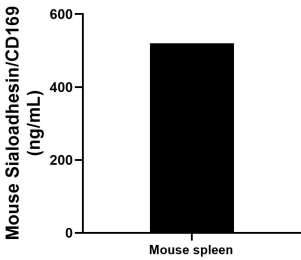
Storage Buffer:
PBS only, pH7.3

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

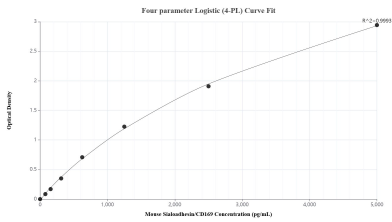
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Selected Validation Data

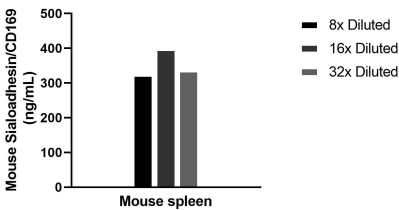
Various lysates were subjected to SDS PAGE followed by western blot with 86605-1-RR (Siglec1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86605-1-PBS in a different storage buffer formulation.



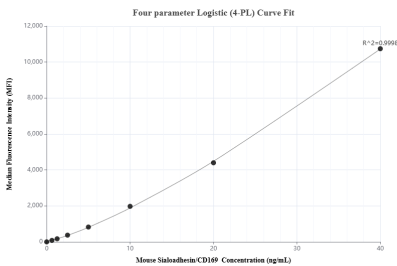
The mean Sialoadhesin/CD169 concentration was determined to be 519.6 ng/mL in mouse spleen tissue extract based on a 8.5 mg/mL extract load.



Sandwich ELISA standard curve of MP02539-1, Mouse Sialoadhesin/CD169 Recombinant Matched Antibody Pair - PBS only. 86605-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg5002. 86605-2-PBS was HRP conjugated as the detection antibody. Range: 78.1-5000 pg/mL



The mean Sialoadhesin/CD169 concentration was determined to be 351.7 ng/mL in Mouse spleen tissue extract based on a 6.4 mg/mL extract load.



Cytometric bead array standard curve of MP02539-1, MOUSE Sialoadhesin/CD169 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 86605-1-PBS. Detection antibody: 86605-2-PBS. Standard: Eg5002. Range: 0.625-40 ng/mL