

For Research Use Only

Mouse CD18 Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number: 87481-1-PBS



Basic Information

Catalog Number: 87481-1-PBS	GenBank Accession Number: GeneID (NCBI): 16414	Purification Method: Protein A purification
Source: Rabbit	UNIPROT ID: P11835	CloneNo.: 252753H7
Isotype: IgG	Full Name: integrin beta 2	
Immunogen Catalog Number: EG10459	Observed MW: 85-90 kDa	

Applications

Tested Applications:
WB, Sandwich ELISA, Indirect ELISA

Species Specificity:
mouse, rat

Background Information

CD18, also known as integrin beta-2, is a transmembrane protein that forms heterodimers with CD11a, CD11b, CD11c, CD11d (PMID: 1968349). CD11a/CD18 (LFA-1) is expressed by all leukocytes, while CD11b/CD18 (Mac-1) and CD11c/CD18 (p150,95) are normally restricted to expression on monocytes, macrophages, polymorphonuclear lymphocytes (PMNs), and natural killer cells (PMID: 1968349; 3109455; 10946284). CD18 plays an important role in mediating cell adhesion during immune response and defects of CD18 cause leukocyte adhesion deficiency (PMID: 3594570).

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:

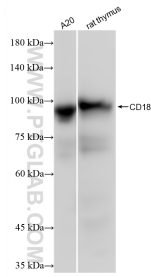
T: 4006900926

E: Proteintech-CN@ptglab.com

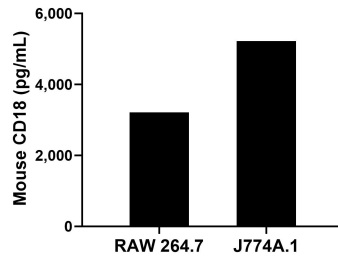
W: ptgcn.com

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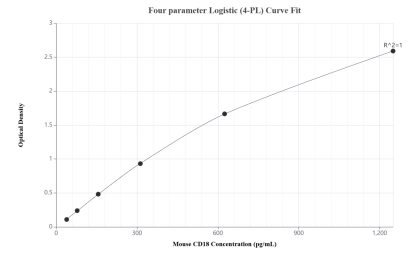
Selected Validation Data



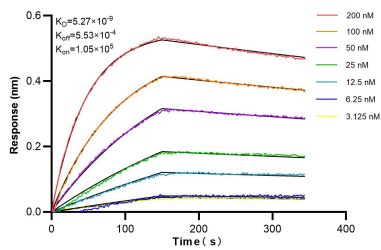
Various lysates were subjected to SDS PAGE followed by western blot with 87481-1-RR (ITB2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87481-1-PBS in a different storage buffer formulation.



The mean CD18 concentration was determined to be 3,214.8 pg/mL in RAW 264.7 cell extract based on a 1.2 mg/mL extract load and 5,220.1 pg/mL in J774A.1 cell extract based on a 1.2 mg/mL extract load.



Sandwich ELISA standard curve of MP03055-2, Mouse CD18 Recombinant Matched Antibody Pair - PBS only. 87481-3-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg10459. 87481-1-PBS was HRP conjugated as the detection antibody. Range: 39.1-1250 pg/mL



Biolayer interferometry (BLI) kinetic assays of 87481-1-RR against Mouse CD18 were performed. The affinity constant is 5.27 nM.