

For Research Use Only

Anti-Human ICAM-1/CD54 (15.2), PBS Only (Capture)

Catalog Number: 65075-1-PBS



Basic Information

Catalog Number: 65075-1-PBS	GenBank Accession Number: BC015969	Purification Method: Affinity purification
Size: 100ug , 2 mg/ml	GeneID (NCBI): 3383	CloneNo.: 15.2
Source: Mouse	ENSEMBL Gene ID: ENSG00000090339	
Isotype: IgG1, kappa	UNIPROT ID: P05362	
	Full Name: intercellular adhesion molecule 1	
	Calculated MW: 90 kDa	

Applications

Tested Applications:
FC, Sandwich ELISA, Indirect ELISA, Sample test

Species Specificity:
human

Product Information

65075-1-PBS targets ICAM-1/CD54 as part of a matched antibody pair:

MP50085-1: 65075-1-PBS capture and 68693-1-PBS detection (validated in Sandwich ELISA)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

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

ICAM-1 (CD54) is a 90-kDa transmembrane glycoprotein of the immunoglobulin superfamily and is critical for the firm attachment and transmigration of leukocytes out of blood vessels and into tissues (PMID: 19307690). ICAM-1 is expressed by several cell types, typically on endothelial cells and cells of the immune system, and its expression can be up-regulated by various stimuli, including TNF- α , INF- γ , IL-1 and thrombin (PMID: 3086451; 9694714; 15979056). It is a ligand for LFA-1 and Mac-1, serves as a receptor for rhinovirus, and is one of several receptors used by Plasmodium falciparum (PMID: 2566624; 2538244; 2475784).

Storage

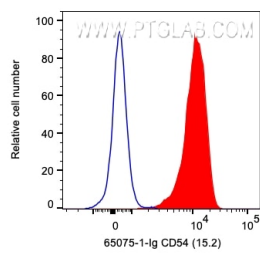
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

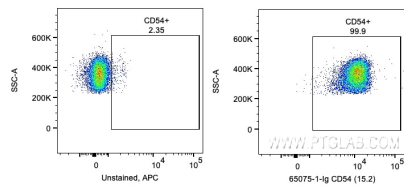
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

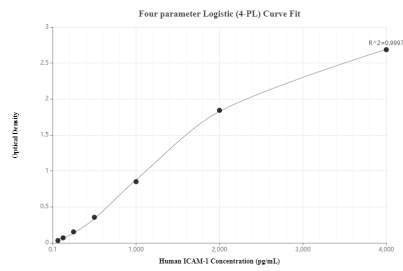
Selected Validation Data



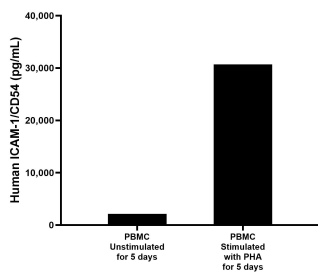
1X10⁶ human PBMCs were surface stained with 0.2 ug Anti-Human CD54 (ICAM-1) (65075-1-Ig, Clone:15.2) and APC-Donkey anti-Mouse IgG at dilution 1:1000. Cells were not fixed. Monocytes were gated. This data was developed using the same antibody clone with 65075-1-PBS in a different storage buffer formulation.



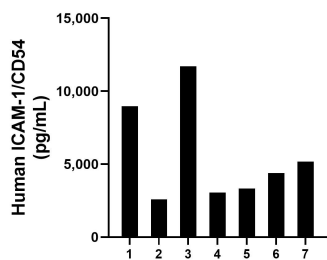
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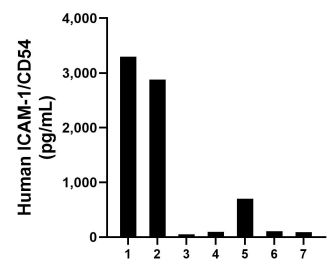
Sandwich ELISA standard curve of MP50085-1, ICAM-1 Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 65075-1-PBS. Detection antibody: 68693-1-PBS. Standard: Eg0570. Range: 62.5-4000 pg/mL



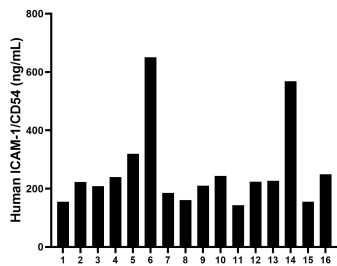
Human peripheral blood mononuclear cells (PBMC) were cultured unstimulated or stimulated with 10 µg/mL PHA for 5 days. The mean ICAM-1/CD54 concentration was determined to be 2,139.3 pg/mL in unstimulated PBMC supernatant, 30,678.8 pg/mL in PHA stimulated PBMC supernatant.



Saliva of seven individual healthy human donors was measured. The human ICAM-1/CD54 concentration of detected samples was determined to be 5,597.4 pg/mL with a range of 2,577.6 - 11,698.1 pg/mL.



Urine of seven individual healthy human donors was measured. The human ICAM-1/CD54 concentration of detected samples was determined to be 1,031.9 pg/mL with a range of 49.7 - 3,299.7 pg/mL.



Serum of sixteen individual healthy human donors was measured. The human ICAM-1/CD54 concentration of detected samples was determined to be 260.08 ng/mL with a range of 142.73 - 650.42 ng/mL.