

Technical Data Sheet

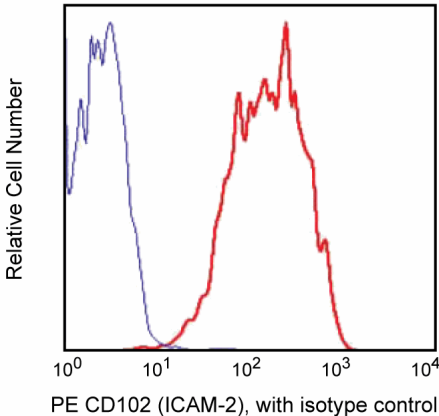
PE Mouse Anti-Human CD102

Product Information

Material Number:	558080
Alternate Name:	ICAM2; ICAM-2; Intercellular adhesion molecule 2
Size:	100 Tests
Vol. per Test:	20 µl
Clone:	CBR-IC2/2
Isotype:	Mouse (BALB/c) IgG2a, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The CBR-IC2/2 monoclonal antibody specifically binds to CD102 which is also known as, intercellular adhesion molecule-2 (ICAM-2/ICAM2). CD102 is a type I transmembrane glycoprotein, member of the immunoglobulin supergene family, with an approximate molecular weight of 55-65 kDa. Its extracellular domain consists of two C2-type immunoglobulin-like subunits. The transmembrane region is 26 residues in size and the intracellular region also has 26 residues. CD102 is expressed on vascular endothelial cells, lymphocytes, monocytes, eosinophils, and platelets, but not on resting neutrophils. It is a ligand for the leukocyte integrin CD11a/CD18, or leukocyte function-associated antigen-1 (LFA-1), and there are reports of CD102 binding to leukocyte integrin CD11b/CD18 (Mac-1). Antibody CBR-IC2/2 blocks the binding of CD102 to leukocyte integrin CD11a/CD18. CD102 plays an important role in lymphocyte recirculation and in providing costimulatory signals in the immune response.



Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555574	PE Mouse IgG2a, κ Isotype Control	100 Tests	G155-178

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Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^6 cells in a 100- μ l experimental sample (a test).
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
6. Please refer to www.bdbiosciences.com/pharming/protocols for technical protocols.

References

Barclay NA, Brown MH, Birkeland ML, et al, ed. *The Leukocyte Antigen FactsBook*. San Diego, CA: Academic Press; 1997. (Biology)
de Fougerolles AR, Stacker SA, Schwarting R, Springer TA. Characterization of ICAM-2 and evidence for a third counter-receptor for LFA-1. *J Exp Med*. 1991; 174(1):253-267. (Biology)
Xie J, Li R, Kotovuori P, et al. Intercellular adhesion molecule-2 (CD102) binds to the leukocyte integrin CD11b/CD18 through the A domain. *J Immunol*. 1995; 155(7):3619-3628. (Biology)

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