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30-1069F: FITC Conjugated Anti-CD102 / ICAM-2 Monoclonal Antibody (Clone:CBR-IC2/2)

Clonality :	Monoclonal
Clone Name :	CBR-IC2/2
Application :	FACS
Reactivity :	Human
Conjugate :	FITC
Gene :	CD102
Gene ID :	3384
Uniprot ID :	P13598
Alternative Name :	ICAM2; CD102
Isotype :	Mouse IgG2a
Immunogen Information :	Human CD102 cDNA transfected COS cells

Description

CD102 / ICAM-2 (intracellular cell adhesion molecule-2), a counter receptor of LFA-1 (CD11a/CD18), is a transmembrane glycoprotein with two extracellular IgC-like domains and intracellular C-terminal tail. It is involved in lymphocyte recirculation and homing to the sites of inflammation. Through interaction with integrins it provides to the immune cells costimulatory signals. Expression of CD102 on blood cells (lymphocytes, monocytes, thrombocytes) is lower than on endothelium and follicular dendritic cells. CD102 levels are upregulated in lymph nodes with malignant infiltration.
Specificity: The mouse monoclonal antibody CBR-IC2/2 recognizes an extracellular epitope of CD102 (ICAM-2), an approximately 55 kDa type I transmembrane glycoprotein expressed mainly on vascular endothelial cells and folicular dendritic cells, in lower amount on lymphocytes, monocytes and platelets.

Product Info

Amount :	100 tests
Purification :	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	Formulation: Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 106 cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10_6 cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

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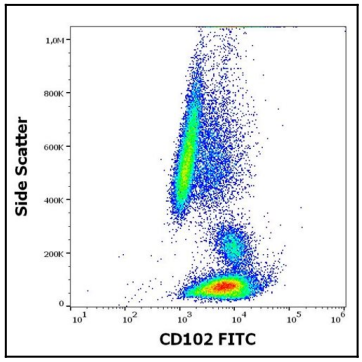

Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD102 (CBR-IC2/2) FITC antibody (4 µl reagent / 100 µl of peripheral whole blood).

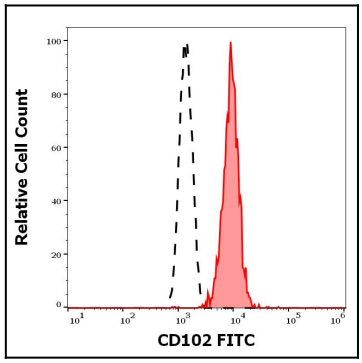

Figure 2: Separation of human monocytes (red-filled) from CD102 negative neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD102 (CBR-IC2/2) FITC antibody (4 µl reagent / 100 µl of peripheral whole blood).