

1P-148-T100

Monoclonal Antibody to CD102 / ICAM-2 Phycoerythrin (PE) conjugated (100 tests)

Clone:	CBR-IC2/2
Isotype:	Mouse IgG2a
Specificity:	The mouse monoclonal antibody CBR-IC2/2 recognizes CD102 (ICAM-2), an approximately 55 kDa type I transmembrane glycoprotein expressed mainly on vascular endothelial cells and follicular dendritic cells, in lower amount on lymphocytes, monocytes and platelets. HLDA V; WS Code BP363
Regulatory Status:	RUO
Immunogen:	Human CD102 cDNA transfected COS cells
Species Reactivity:	Human
Preparation:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	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.

For laboratory research only, not for drug, diagnostic or other use.



Antibodies

- References:**
- *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 Jul 1;174(1):253-67.
 - *Kawamata N, Xu B, Nishijima H, Aoyama K, Kusumoto M, Takeuchi T, Tei C, Michie SA, Matsuyama T: Expression of endothelia and lymphocyte adhesion molecules in bronchus-associated lymphoid tissue (BALT) in adult human lung. *Respir Res.* 2009 Oct 22;10:97. doi: 10.1186/1465-9921-10-97.
 - *Maki G, Krystal G, Dougherty G, Takei F, Klingemann HG: Induction of sensitivity to NK-mediated cytotoxicity by TNF-alpha treatment: possible role of ICAM-3 and CD44. *Leukemia.* 1998 Oct;12(10):1565-72.
 - *Diacovo TG, deFougerolles AR, Bainton DF, Springer TA: A functional integrin ligand on the surface of platelets: intercellular adhesion molecule-2. *J Clin Invest.* 1994 Sep;94(3):1243-51.
 - *Juan M, Mullol J, Roca-Ferrer J, Fuentes M, Pérez M, Vilardell C, Yagüe J, Picado C: Regulation of ICAM-3 and other adhesion molecule expressions on eosinophils in vitro. Effects of dexamethasone. *Allergy.* 1999 Dec;54(12):1293-8.
 - *de Fougerolles AR, Springer TA: Intercellular adhesion molecule 3, a third adhesion counter-receptor for lymphocyte function-associated molecule 1 on resting lymphocytes. *J Exp Med.* 1992 Jan 1;175(1):185-90.

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EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz