



11-148-C025

## Monoclonal Antibody to CD102 / ICAM-2 Purified Antibody (0.025 mg)

<b>Clone:</b>	CBR-IC2/2
<b>Isotype:</b>	Mouse IgG2a
<b>Specificity:</b>	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
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Human CD102 cDNA transfected COS cells
<b>Species Reactivity:</b>	Human
<b>Application:</b>	Flow Cytometry Immunoprecipitation Immunohistochemistry (frozen sections) Functional Application blocking
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Purified by protein-A affinity chromatography
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
<b>Storage / Stability:</b>	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	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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