

DESCRIPTION

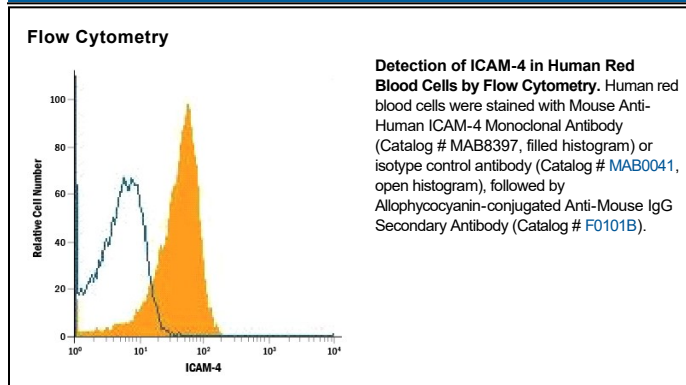
Species Reactivity	Human
Specificity	Detects human ICAM-4 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 729632
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human ICAM-4 Ala23-Ala240 Accession # Q14773
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Flow Cytometry	0.25 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

ICAM-4 (Intercellular Adhesion Molecule 4), also known as Landsteiner-Wiener Glycoprotein and CD242, is a 42 kDa member of the ICAM family, Ig superfamily of proteins. It is expressed on erythrocytes and erythroblasts, and serves as a receptor for LFA-1, Mac-1, and CD11c/CD18, plus α4β1 and alpha-V containing integrins. ICAM-4 is suggested to bind to Mac-1 on macrophages, allowing for its phagocytosis in senescence. Mature human ICAM-4 is a 249 amino acid (aa) type I transmembrane glycoprotein. It possesses a 218 aa extracellular region (aa 23-240) that contains two C2-type Ig-like domains (aa 62-124 and 146-217), and a 10 aa C-terminal cytoplasmic tail. ICAM-4 may form 85 kDa homodimers. There are three potential isoform variants. One shows a five aa substitution for aa 233-271, a second contains a 15 aa substitution for aa 14-29, and a third possesses a 141 aa substitution for aa 132-271. Over aa 31-240, human ICAM-4 shares 71% aa identity with mouse ICAM-4.