

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
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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	0.25-1 µg/10 ⁶ cells	Human red blood cells

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. ● 12 months from date of receipt, 2 to 8 °C as supplied.

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.

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