

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ICAM-4 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human ICAM-4 Ala31-Ala240 Accession # Q14773
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*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.

CyTOF-ready	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Flow Cytometry	Optimal dilution of this antibody should be experimentally determined.

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 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 $\alpha 4\beta 1$ and α -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.

PRODUCT SPECIFIC NOTICES

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