

Human ICAM-4 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF7179

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	
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.	

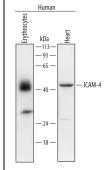
APPLICATIONS

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	
Western Blot	0.2 μg/mL	See Below	
Flow Cytometry	2.5 μg/10 ⁶ cells	See Below	
Simple Western	10 μg/mL	See Below	
CyTOF-ready	Ready to be labeled with conjugation.	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

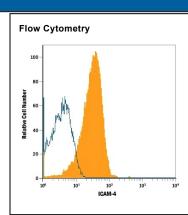
DATA

Western Blot

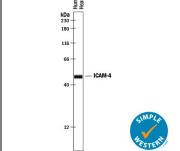


Simple Western

Detection of Human ICAM-4 by Western Blot. Western blot shows lysates of human erythrocytes and human heart tissue. PVDF membrane was probed with 0.2 µg/mL of Sheep Anti-Human ICAM-4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7179) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for ICAM-4 at approximately 42 KDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



Detection of ICAM-4 in Human Red Blood Cells by Flow Cytometry. Human red blood cells (erythrocytes) were stained with Sheep Anti-Human ICAM-4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7179, filled histogram) or isotype control antibody (Catalog # 5-001-A, open histogram), followed by Allophycocyanin-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # F0127).



Detection of Human ICAM-4 by Simple WesternTM. Simple Western lane view shows lysates of human heart tissue, loaded at 0.2 mg/mL. A specific band was detected for ICAM-4 at approximately 48 kDa (as indicated) using 10 μg/mL of Sheep Anti-Human ICAM-4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7179) followed by 1:50 dilution of HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF716). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.2 mg/mL.

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 $^\circ$ C

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 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.

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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 α 4 β 1 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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