

Mouse ICAM-1/CD54 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF796

DESCRIPTION			
Species Reactivity	Mouse		
Specificity	Detects mouse ICAM-1 in direct ELISAs and Western blots. In direct ELISAs, approximately 20% cross-reactivity with recombinant rat ICAM 1 is observed, approximately 5% cross-reactivity with recombinant human (rh) ICAM-1 and rhICAM-3 is observed, and less than 1% cross-reactivity with recombinant mouse ICAM-2 is observed.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse ICAM-1/CD54 Gln28-Asn485 Accession # Q3U8M7		
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.		
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.		

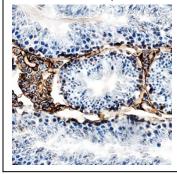
APPLICATIONS

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	0.1 μg/mL	Recombinant Mouse ICAM-1/CD54 Fc Chimera (Catalog # 796-IC)
Immunohistochemistry	5-15 μg/mL	See Below
Adhesion Blockade	The adhesion of HSB2 human peripheral blood acute lymphoblastic leukemia cells (5 x 10 ⁴ cells/well) to immobilized Recombinant Mouse ICAM-1 Fc Chimera (Catalog # 796-IC, 5 μg/mL, 100 μL/well) was maximally inhibited (80-100%) by 5 μg/mL of the antibody.	

DATA

Immunohistochemistry



ICAM-1/CD54 in Mouse Testis. ICAM-1/CD54 was detected in perfusion fixed frozen sections of mouse testis using Goat Anti-Mouse ICAM-1/CD54 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF796) at 15 μg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to plasma membrane in Leydig cells. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 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.

- 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

Intercellular Adhesion Molecule-1 (ICAM-1, CD54) binds the leukocyte integrins LFA-1 and Mac-1. ICAM-1 expression is weak on leukocytes, epithelial and resting endothelial cells, as well as some other cell types, but expression can be stimulated by IFN-γ, TNF-α, IL-1β, and LPS. Mouse and human ICAM-1 share approximately 54% amino acid identity.

Soluble ICAM-1 is found in a biologically active form in serum, probably as a result of proteolytic cleavage from the cell surface, and is elevated in patients with various inflammatory syndromes such as septic shock, leukocyte adhesion deficiency syndrome (LAD), cancer, and transplantation.

References:

- 1. Pigott, R. and C. Power (1993) in The Adhesion Molecule Facts Book. Academic Press, p. 74.
- 2. Siu, G. et al. (1989) J. Immunol. 143:3813.
- 3. Ballantyne, C.M. et al. (1989) Nuc. Acid. Res. 17:5853.

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