

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse ICAM-1/CD54 in ELISAs and Western blots. In sandwich ELISAs, less than 0.3% cross-reactivity with recombinant human ICAM-1, recombinant rat ICAM-1, and 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
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

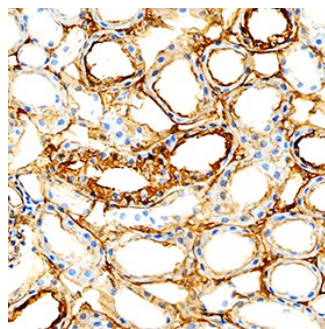
APPLICATIONS

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	2-10 µg/mL	See Below
Mouse ICAM-1/CD54 Sandwich Immunoassay		Reagent
ELISA Capture	2-8 µg/mL	Mouse ICAM-1/CD54 Antibody (Catalog # MAB796)
ELISA Detection	0.1-0.4 µg/mL	Mouse ICAM-1/CD54 Biotinylated Antibody (Catalog # BAF796)
Standard		Recombinant Mouse ICAM-1/CD54 Fc Chimera (Catalog # 796-IC)

DATA

Immunohistochemistry



ICAM-1/CD54 in Human Kidney. ICAM-1/CD54 was detected in immersion fixed paraffin-embedded sections of human kidney using Goat Anti-Mouse ICAM-1/CD54 Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF796) at 5 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 cell membrane in convoluted tubules. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded 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.
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

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.