

DESCRIPTION

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|---------------------------|---|
| Species Reactivity | Human |
| Specificity | Detects recombinant human (rh)ICAM-1 in direct ELISAs and Western blots. In Western blots, shows no cross-reactivity with rrICAM-1, rhICAM-2, rhICAM-3, rhVCAM-1, and rmDCC. |
| Source | Monoclonal Mouse IgG ₁ Clone # 14C11 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | Chinese hamster ovary cell line CHO-derived recombinant human ICAM-1 Extracellular domain |
| 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. |

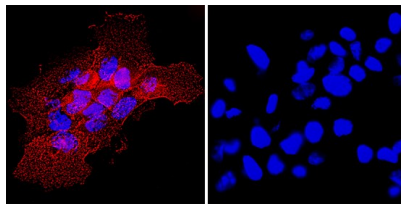
APPLICATIONS

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 | 1 µg/mL | Recombinant Human ICAM-1/CD54 (Catalog # ADP4) under non-reducing conditions only |
| Immunocytochemistry | 5-25 µg/mL | See Below |
| Human ICAM-1/CD54 Sandwich Immunoassay | | Reagent |
| ELISA Capture | 2-8 µg/mL | Human ICAM-1/CD54 Antibody (Catalog # MAB720) |
| ELISA Detection | 0.1-0.4 µg/mL | Human ICAM-1/CD54 Biotinylated Antibody (Catalog # BAF720) |
| Standard | | Recombinant Human ICAM-1/CD54 (Catalog # ADP4) |

DATA

Immunocytochemistry



A431

A549

ICAM-1/CD54 in A431 Human Cell Line. ICAM-1/CD54 was detected in immersion fixed A431 human epithelial carcinoma cell line using Mouse Anti-Human ICAM-1/CD54 Monoclonal Antibody (Catalog # [MAB720](#)) at 25 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # [NL007](#)) and counterstained with DAPI (blue). Specific staining was localized to plasma membrane. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

PREPARATION AND STORAGE

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|--------------------------------|--|
| Reconstitution | Reconstitute at 0.5 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. <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) 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 upregulated upon cell activation.