

# CD54 (ICAM-1) Monoclonal Antibody (HA58), NovaFluor™ Yellow 690, eBioscience™

| Product Details    |                                     |
|--------------------|-------------------------------------|
| Size               | 100 Tests                           |
| Species Reactivity | Human                               |
| Host/Isotype       | Mouse / IgG1, kappa                 |
| Class              | Monoclonal                          |
| Type               | Antibody                            |
| Clone              | HA58                                |
| Conjugate          | NovaFluor™ Yellow 690               |
| Form               | Liquid                              |
| Concentration      | 0.4 µg/Test                         |
| Purification       | Affinity chromatography             |
| Storage buffer     | PBS, pH 7.2                         |
| Contains           | 0.09% sodium azide                  |
| Storage conditions | 4° C, store in dark, DO NOT FREEZE! |

| Applications          | Tested Dilution    | Publications |
|-----------------------|--------------------|--------------|
| Flow Cytometry (Flow) | 5 µL (0.4 µg)/test | -            |

## Product Specific Information

**Description:** The HA58 monoclonal antibody reacts with human CD54 (InterCellular Adhesion Molecule-1, ICAM-1), a 90-110 kDa transmembrane glycoprotein expressed by monocytes, lymphocytes and endothelial cells. Expression of CD54 is upregulated on activated lymphocytes. Interaction of CD54 with its ligand CD11a is important in the inflammatory response.

**Applications Reported:** The HA58 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** The HA58 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 5 µL (0.4 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

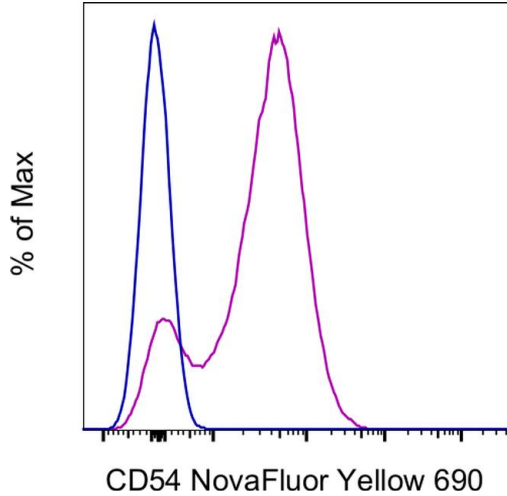
NovaFluor dyes are not compatible with DNA intercalating viability dyes. Do not use viability dyes such as propidium iodide, 7-actinomycin D (7-AAD) and DAPI. Invitrogen LIVE/DEAD Fixable Dead Cell stains are recommended for use with NovaFluor dyes.

Each NovaFluor conjugate or kit is shipped with CellBlox Blocking Buffer. Use this buffer whenever staining with NovaFluor conjugates, including single color compensation controls using cells. Use 5 µL of CellBlox Blocking Buffer per stained cell sample containing 10<sup>3</sup> to 10<sup>8</sup> cells.

NovaFluor conjugates are based on Phiton™ technology utilizing novel nucleic acid dye structures that allow for engineered fluorescent signatures with consideration for spillover and spread impacts. Learn more

Excitation: 552 nm; Emission: 690 nm; Laser: 561 nm (Yellow) Laser

## Product Images For CD54 (ICAM-1) Monoclonal Antibody (HA58), NovaFluor™ Yellow 690, eBioscience™



### CD54 (ICAM-1) Antibody (H035T03Y05) in Flow

Normal human peripheral blood cells were either left unstained (blue histogram) or stained with CD54 (ICAM-1) Monoclonal Antibody, NovaFluor Yellow 690 (Product # H035T03Y05) (purple histogram). Total viable cells in the lymphocyte gate were used for analysis, as determined by LIVE/DEAD Blue (Product # L34962). Data was acquired on a 5-laser Cytex Aurora and unmixed with autofluorescence extraction.

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