

## Product datasheet for **AM03205AF-N**

### ICAM1 Mouse Monoclonal Antibody [Clone ID: 1H4]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	1H4
Applications:	FC, IF, IHC, WB
Recommended Dilution:	<b>Flow Cytometry:</b> 1 µg/ml. <b>Immunocytochemistry.</b> <b>Western blot.</b> <b>Immunohistochemistry on Frozen Sections:</b> 5-10 µg/ml. <b>Immunohistochemistry on Paraffin Sections:</b> 10 µg/ml Prolonged fixation in buffered formalin can destroy the epitope. High temperature antigen unmasking technique is required.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Raji cells and spleen cells fused with NS1 cells
Specificity:	The antibody reacts with CD54 (ICAM-1), a 85-110 kDa type I transmembrane glycoprotein (receptor for rhinovirus) expressed on activated endothelial cells, T lymphocytes, B lymphocytes, monocytes, macrophages, granulocytes and dendritic cells; the expression of CD54 is upregulated by activation.
Formulation:	Azide free PBS preserved by filter sterilization, pH~7.4 State: Azide Free State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE)
Concentration:	lot specific
Purification:	Protein A Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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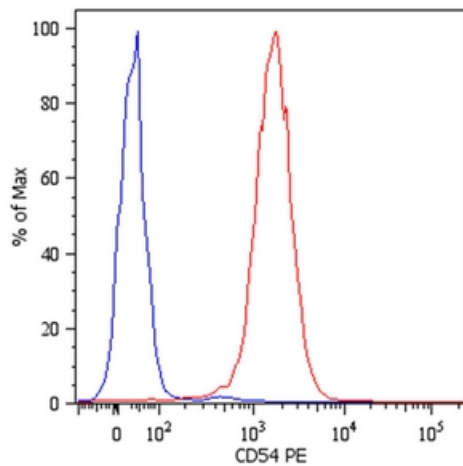
**Gene Name:** intercellular adhesion molecule 1

**Database Link:** [Entrez Gene 3383 Human P05362](#)

**Background:** CD54 (ICAM-1) is a 90 kD member of the C2 subset of immunoglobulin superfamily. It is a transmembrane molecule with 7 potential N-glycosylated sites, expressed on resting monocytes and endothelial cells and can be upregulated on many other cells, e.g. with lymphokines, on B- and T-lymphocytes, thymocytes, dendritic cells and also on keratinocytes, chondrocytes, as well as epithelial cells. CD54 mediates cell adhesion by binding to integrins CD11a/CD18 (LFA-1) and to CD11b/CD18 (Mac-1). The interaction of CD54 with LFA-1 enhances antigen-specific T-cell activation.

**Synonyms:** ICAM-1

### Product images:



Surface staining of U937 Human histiocytic lymphoma cell line with anti-Human CD54 antibody (1H4) PE conjugated. Total viable cells were used for analysis.