

Mouse anti-CD54 (ICAM-1), clone F4-31C2 (Monoclonal)

Clone no. F4-31C2

MONOSAN

Product name	Mouse anti-CD54 (ICAM-1), clone F4-31C2 (Monoclonal)
Host	Mouse
Applications	FC, IHC-fr, IF
Species reactivity	human
Conjugate	-
Immunogen	human umbilical cord vein endothelial cells (HUVEC)
Isotype	IgG2a-K
Clonality	Monoclonal
Clone number	F4-31C2
Size	100 ug
Concentration	100 ug/ml
Format	-
Storage buffer	PBS with 0.02% sodium azide
Storage until expiry date	2-8°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

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Additional info

F4-31C2 reacts with CD54 or ICAM1 (Intercellular Adhesion Molecule 1). ICAM1 belongs to the immunoglobulin superfamily, C2 subset, is a transmembrane molecule of 90 kDa with 7 potential N-glycosylation sites. It is expressed on resting monocytes and endothelial cells and in response to inflammatory cytokines such as TNF-alpha, IL1 and IFN-gamma, can be highly upregulated on many other cells, e.g. 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 integrin CD11a/CD18 (LFA 1) and to CD1b/CD18 (Mac 1). The interaction of CD54 with LFA 1 enhances antigen specific T-cell activation. CD54 also binds to CD43, fibrinogen, most human rhinoviruses and to Plasmodium falciparum infected erythrocytes. ICAM1 may also be related to progression and metastasis of tumors.

References

1. Johnson, J.P., et al., in Knapp, W., et al. Leucocyte Typing IV, pp 681-683 (1989)
2. -
3. -
4. -
5. -

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