

Product datasheet for **AM33033PU-N**

ICAM3 Mouse Monoclonal Antibody [Clone ID: MA4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MA4
Applications:	ELISA, FC, IF, IHC, IP, WB
Recommended Dilution:	ELISA. Western Blot. Immunoprecipitation. Flow Cytometry. Immunocytochemistry. Immunohistochemistry on Frozen Sections. <i>Recommended Dilutions:</i> 1/100–1/200 for Flow Cytometry, and for Immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent, and 1/100–1/1000 for Immunoblotting applications.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Derived by fusion of mouse Ag8.653 cells with spleen cells from a BALB/c mouse immunized with an ICAM-3/HEK transfectant.
Specificity:	This <i>MA4</i> antibody recognizes a linear epitope in domains 1 and 2 of ICAM-3. <i>MA4</i> robustly inhibits apoptotic cell interaction with phagocytes.
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store 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 3

Database Link: [Entrez Gene 3385 Human P32942](#)

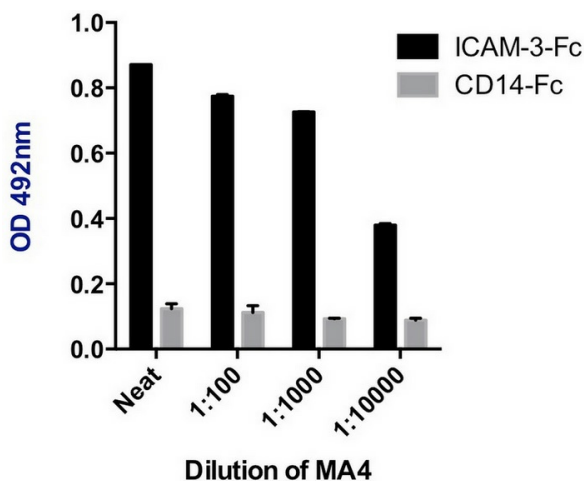
Background: Intercellular adhesion molecule 3 (ICAM3) also known as CD50 (Cluster of Differentiation 50), is a type I transmembrane glycoprotein, which normally contain 2-9 immunoglobulin-like C2-type domains, and binds to the leukocyte adhesion LFA-1 protein. This protein is constitutively and abundantly expressed by all leucocytes and may be the most important ligand for LFA-1 in the initiation of the immune response. It functions not only as an adhesion molecule, but also as a potent signalling molecule. ICAM-3 has previously been implicated in apoptotic cell clearance, although its precise role in the clearance process is ill defined.

Synonyms: ICAM-3, ICAM-R, CDw50

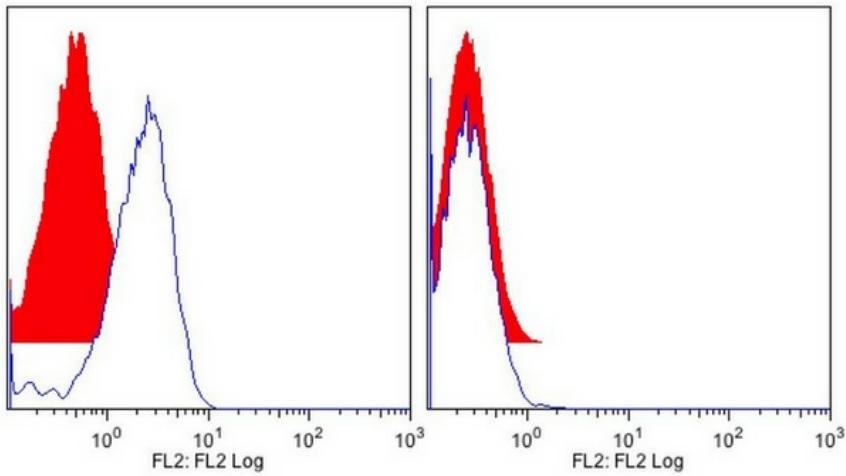
Product images:



Purified ICAM-3-Fc was separated by using PAGE and transferred via electroblotting to nitrocellulose membrane. The membrane was probed with MA4 at a dilution of 1/200 (using TBST - TBS+0.05% tween 20) which equates to a concentration of 5 ug/ml and mAb binding detected by anti-mouse-HRP (1/1000). This single band on western blot analysis is consistent with the published reports using this recombinant ICAM-3-Fc which contained only domains 1 and 2 of ICAM-3 fused to human Fc. The band shown is approximately 80kDa.



Purified ICAM-3-Fc or CD14-Fc was captured to an ELISA plate and probed with the indicated dilution of mAb MA4. The binding of mAb was detected anti-Mouse-HRP (1/1000) and OPD detection system. Data shown are mean ± SD of a representative experiment. MA4 shows clear specificity for ICAM-3.



Mutu (human B cell line) that were wild type (left panel) or ICAM-3-deficient (right panel) were stained with mAb MA4 (blue line) or an isotype control (solid red). Per tube, 2×10^5 cells were stained with $75 \mu\text{l}$ of mAb at the indicated concentrations. Following 30 min incubation at 4°C , unbound Ab was removed by washing and bound mAb detected by staining with goat anti-mouse-PE for 30 min at 4°C . Flow cytometric histograms of 5000 events per sample are shown.