

AM33033PU-N**Monoclonal Antibody to CD50 / ICAM3 - Purified**

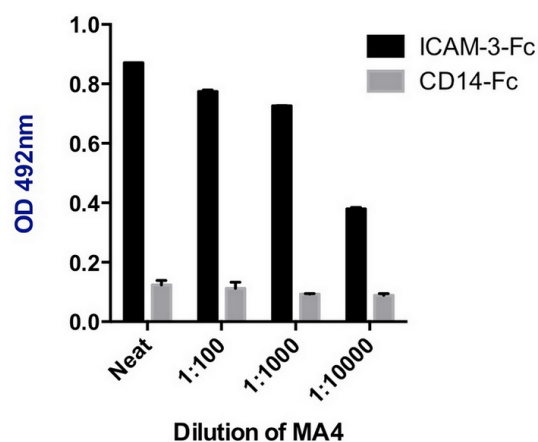
Alternate names:	CDw50, ICAM-3, ICAM-R, Intercellular adhesion molecule 3
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	Intercellular adhesion molecule 3 (ICAM3) also known as CD50 (Cluster of Differentiation 50), is a type I transmembrane glycoprotein, which normally contain 2-9 immunoglobulin-like 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.
Uniprot ID:	P32942
NCBI:	NP_002153.2
GeneID:	3385
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	MA4
Immunogen:	Derived by fusion of mouse Ag8.653 cells with spleen cells from a BALB/c mouse immunized with an ICAM-3/HEK transfectant.
Format:	State: Liquid purified IgG fraction Buffer System: PBS Preservatives: 0.09% Sodium Azide
Applications:	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. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This MA4 antibody recognizes a linear epitope in domains 1 and 2 of ICAM-3. MA4 robustly inhibits apoptotic cell interaction with phagocytes.
Species Reactivity:	Tested: Human.

- Storage:** Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
- General Readings:** 1. Torr EE, Gardner DH, Thomas L, Goodall DM, Bielemeier A, Willetts R, et al. Apoptotic cell-derived ICAM-3 promotes both macrophage chemoattraction to and tethering of apoptotic cells. *Cell Death Differ.* 2012 Apr;19(4):671-9. doi: 10.1038/cdd.2011.167. Epub 2011 Nov 25. PubMed PMID: 22117198.

Pictures: 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 µg/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 μ 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.

