

# Anti-ICAM1 Antibody [F11-A4]

## M1505-7



<b>Product Type:</b>	Mouse monoclonal IgG2a/IgG2c, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB, IF-Cell, FC
<b>Molecular Wt:</b>	Predicted band size: 58 kDa
<b>Clone number:</b>	F11-A4

**Description:** ICAM-1 is a member of the immunoglobulin superfamily, the superfamily of proteins including antibodies and T-cell receptors. The structure of ICAM-1 is characterized by heavy glycosylation, and the protein's extracellular domain is composed of multiple loops created by disulfide bridges within the protein. ICAM-1 can be induced by interleukin-1 (IL-1) and tumor necrosis factor (TNF) and is expressed by the vascular endothelium, macrophages, and lymphocytes. ICAM-1 is a ligand for LFA-1 (integrin), a receptor found on leukocytes. More recently, ICAM-1 has been characterized as a site for the cellular entry of human rhinovirus. ICAM-1 and soluble ICAM-1 have antagonistic effects on the tight junctions forming the blood-testis barrier, thus playing a major role in spermatogenesis. ICAM-1 has been implicated in subarachnoid hemorrhage (SAH). Levels of ICAM-1 are shown to be significantly elevated in patients with SAH over control subjects in many studies.

**Immunogen:** Synthetic peptide within Human ICAM1 aa 483-532 / 532.

**Positive control:** Ramos cell lysate, Raji cell lysate, HUVEC cell lysate, Raji.

**Subcellular location:** Membrane.

**Database links:** SwissProt: P05362 Human

**Recommended Dilutions:**

<b>WB</b>	1:1,000
<b>IF-Cell</b>	1:100
<b>FC</b>	1:1,000

**Storage Buffer:** 1\*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Store at +4℃ after thawing. Aliquot store at -20℃ or -80℃. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

**Hangzhou Huaan Biotechnology Co., Ltd.**

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Technical:0086-571-89986345

Service mail:support@huabio.cn

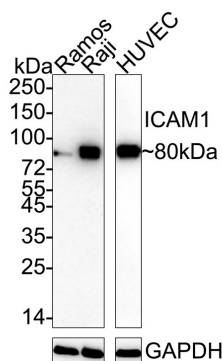
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

## Images

**Fig1:** Western blot analysis of ICAM1 on different lysates with Mouse anti-ICAM1 antibody (M1505-7) at 1/1,000 dilution.

Lane 1: Ramos cell lysate  
Lane 2: Raji cell lysate  
Lane 3: HUVEC cell lysate



Lysates/proteins at 30 µg/Lane.

Predicted band size: 58 kDa  
Observed band size: 80 kDa

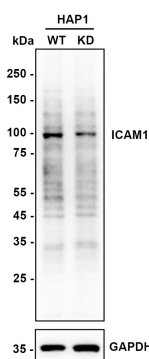
Exposure time: 2 minutes 30 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (M1505-7) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.

**Fig2:** Western blot analysis of ICAM1 on different lysates with Mouse anti-ICAM1 antibody (M1505-7) at 1/1,000 dilution.

Lane 1: HAP1-parental cell lysate  
Lane 2: HAP1-ICAM1 KD cell lysate



Lysates/proteins at 10 µg/Lane.

Predicted band size: 58 kDa  
Observed band size: 80 kDa

Exposure time: 15 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (M1505-7) at 1/1,000 dilution was used in K1803 at 4°C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.

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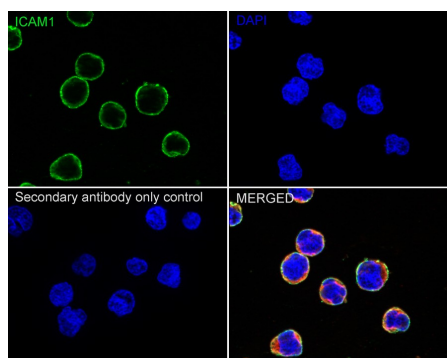
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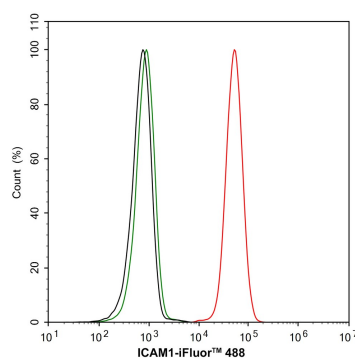
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**Fig3:** Immunocytochemistry analysis of Raji cells labeling ICAM1 with Mouse anti-ICAM1 antibody (M1505-7) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Mouse anti-ICAM1 antibody (M1505-7) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 488, HA1125) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

beta Tubulin (ET1602-4, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Rabbit IgG H&L (iFluor™ 594, HA1122) were used as the secondary antibody at 1/1,000 dilution.



**Fig4:** Flow cytometric analysis of Raji cells labeling ICAM1.

Cells were fixed and permeabilized. Then stained with the primary antibody (M1505-7, 1/1,000) (red) compared with Mouse IgG Isotype Control (green). After incubation of the primary antibody at +4°C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Mouse IgG Secondary antibody (HA1125) at 1/1,000 dilution for 30 minutes at +4°C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

### Background References

1. "Interaction of coxsackievirus A21 with its cellular receptor, ICAM-1." Xiao C., Bator C.M., Bowman V.D., Rieder E., He Y., Hebert B., Bella J., Baker T.S., Wimmer E., Kuhn R.J., Rossmann M.G. J. Virol. 75:2444-2451(2001)
2. "MARCH-IX mediates ubiquitination and downregulation of ICAM-1." Hoer S., Smith L., Lehner P.J. FEBS Lett. 581:45-51(2007)
3. "RhoG regulates endothelial apical cup assembly downstream from ICAM1 engagement and is involved in leukocyte trans-endothelial migration." van Buul J.D., Allingham M.J., Samson T., Meller J., Boulter E., Garcia-Mata R., Burridge K. J. Cell Biol. 178:1279-1293(2007)

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