

Anti-ICAM1 Antibody

ER131207



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IF-Cell, IHC-P, FC
Molecular Wt:	Predicted band size: 58 kDa

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).

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

Positive control: Raji cell lysate, HUVEC cell lysate, K562 cell lysate, human tonsil tissue, Hela.

Subcellular location: Membrane.

Database links: SwissProt: P05362 Human

Recommended Dilutions:

WB	1:500-1:1,000
IF-Cell	1:200
IHC-P	1:200
FC	1:50-1:100

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

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

Purity: Immunogen affinity purified.

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Orders:0086-571-88062880

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Images

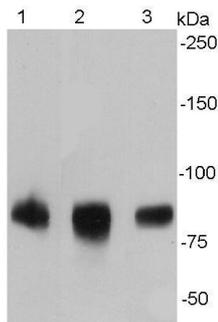


Fig1: Western blot analysis of ICAM1 on different cell lysates using anti- ICAM1 antibody at 1/500 dilution.

Positive control:

Lane 1: Raji cell lysate

Lane 2: HUVEC cell lysate

Lane 3: K562 cell lysate

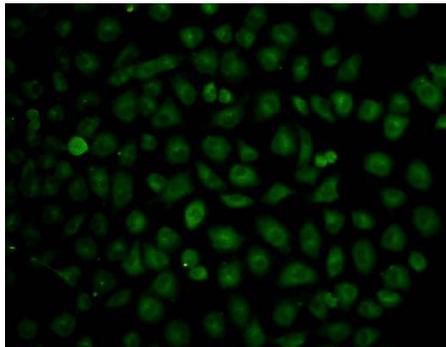


Fig2: ICC staining of ICAM1 in HUVEC cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

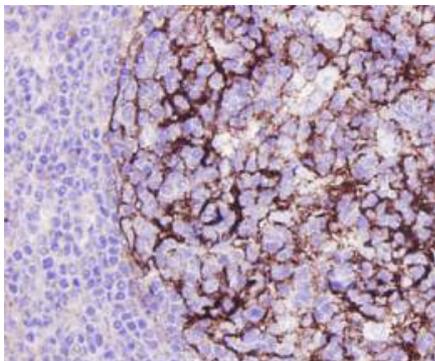


Fig3: Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-ICAM1 antibody. Counter stained with hematoxylin.

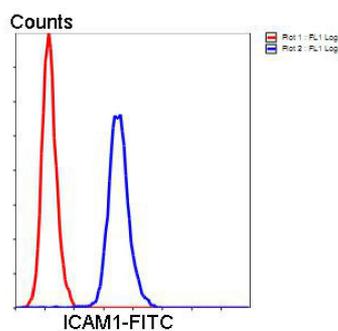


Fig4: Flow cytometric analysis of HeLa cells with ICAM1 antibody at 1/100 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Goat anti rabbit IgG (FITC) was used as the secondary antibody.

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

Background References

1. "MUC1 mucin core protein binds to the domain 1 of ICAM-1." Hayashi T., Takahashi T., Motoya S., Ishida T., Itoh F., Adachi M., Hinoda Y., Imai K. *Digestion* 63 Suppl. 1:87-92(2001)
2. "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)
3. "An enzyme assisted RP-RPLC approach for in-depth analysis of human liver phosphoproteome." Bian Y., Song C., Cheng K., Dong M., Wang F., Huang J., Sun D., Wang L., Ye M., Zou H. *J. Proteomics* 96:253-262(2014)

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