Product datasheet

Anti-ICAM1 Antibody (Clone#6F2C3)

Catalog Number: *M00171-3*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-ICAM1 Antibody (Clone#6F2C3)
Gene Name	ICAM1
Source	Mouse
Clonality	Monoclonal
Isotype	IgG1
Species Reactivity	human
Tested Application	WB, IHC, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived human ICAM1 recombinant protein (Position: Q28-R268).
Concentration	500 ug/ml
Purification	protein G purified.
Observed MW	90-110 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

CD54, also known as ICAM-1. Intercellular adhesion molecule-1 (ICAM1) is a ligand for lymphocyte function-associated (LFA) antigens. ICAM-1 is an integral membrane protein, a member of the immunoglobulin superfamily, and a ligand for LFA-1, a beta 2 leukocyte integrin. This protein is the major human rhinovirus receptor. The ICAM1 gene is mapped to human chromosome 19. In humans, lymphocyte adhesion to cells is mediated by the protein heterodimer CD11a/CD18 (Leu-CAMa, LFA-1) and its ligand CD54 (ICAM-1).

Reference

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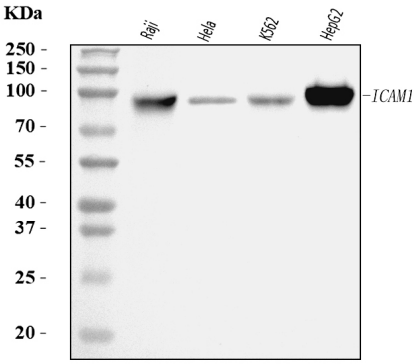
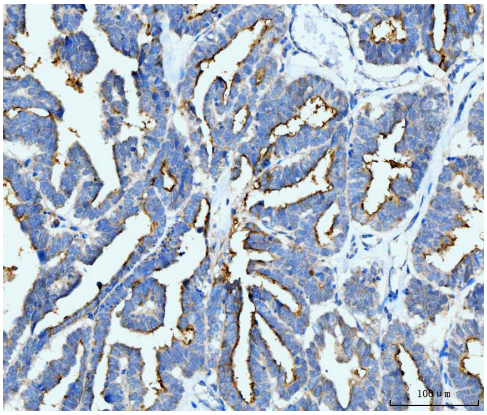
Anti-ICAM1 Antibody (Clone#6F2C3)被引用在5文献中。

Selected Validation Data



Western blot analysis of ICAM1 using anti-ICAM1 antibody (M00171-3). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: raji whole cell lysates,
Lane 2: HELA whole cell lysates,
Lane 3: K562 whole cell lysates,
Lane 4: HEPG2 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-ICAM1 antigen affinity purified monoclonal antibody (M00171-3) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for ICAM1 at approximately 90-110 kDa. The expected band size for ICAM1 is at 58 kDa.



IHC analysis of ICAM1 using anti-ICAM1 antibody (M00171-3).
ICAM1 was detected in a paraffin-embedded section of human ovarian serous adenocarcinoma tissue. The tissue section was incubated with mouse anti-ICAM1 Antibody (M00171-3) at a dilution of 1:200 and developed using HRP Conjugated mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB (Catalog # AR1027) as the chromogen.

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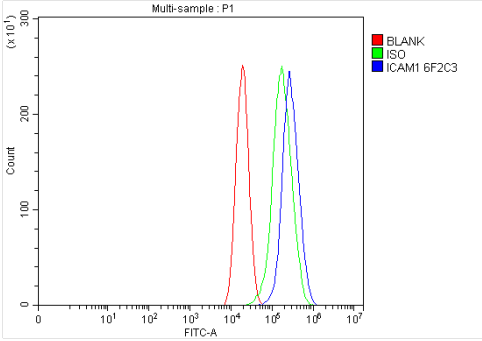

Flow Cytometry analysis of Caco-2 cells using anti-ICAM1 antibody (M00171-3).
Overlay histogram showing Caco-2 cells stained with M00171-3 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with mouse anti-ICAM1 Antibody (M00171-3) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.