

## Basic Information

|                           |                                                                                                                                                                                                                                                                                                                                                                                                        |  |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Product Name</b>       | Anti-ICAM1 Antibody                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <b>Gene Name</b>          | ICAM1                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Source</b>             | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| <b>Clonality</b>          | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <b>Isotype</b>            | IgG                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <b>Species Reactivity</b> | human, mouse, rat                                                                                                                                                                                                                                                                                                                                                                                      |  |
| <b>Tested Application</b> | WB, IHC, ICC/IF, FCM                                                                                                                                                                                                                                                                                                                                                                                   |  |
| <b>Contents</b>           | 500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.                                                                                                                                                                                                                                                                                                                    |  |
| <b>Immunogen</b>          | E. coli-derived human ICAM1 recombinant protein (Position: Q28-R268). Human ICAM1 shares 55.5% and 55.8% amino acid (aa) sequence identity with mouse and rat ICAM1, respectively.                                                                                                                                                                                                                     |  |
| <b>Concentration</b>      | 500 ug/ml                                                                                                                                                                                                                                                                                                                                                                                              |  |
| <b>Purification</b>       | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                                                           |  |
| <b>Observed MW</b>        | 90-110 kDa                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <b>Dilution Ratios</b>    | Western blot (WB): 1:500-2000<br>Immunohistochemistry (IHC): 1:50-400<br>Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400<br>Flow Cytometry (Fixed): 1:50-200<br>(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°C as supplied.

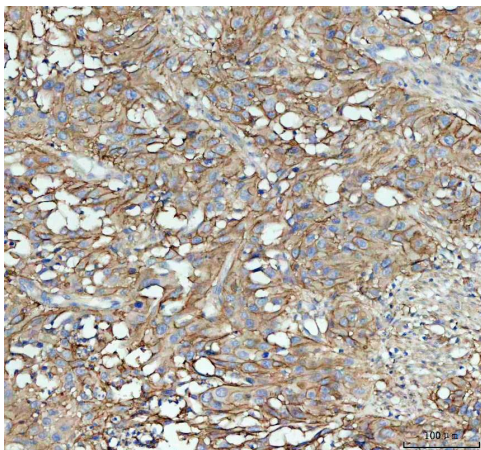
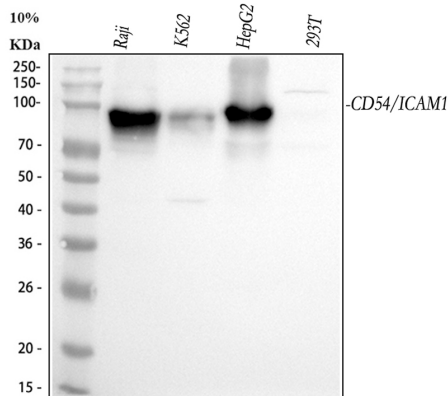
## Background Information

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

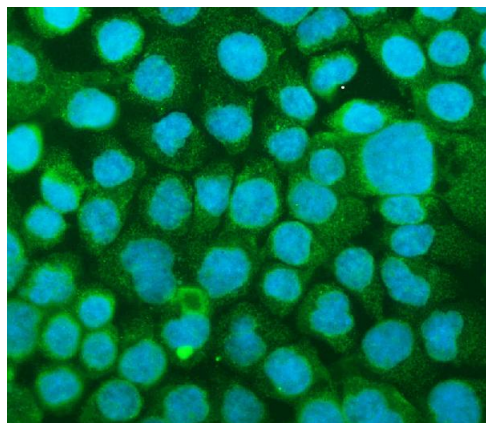
Anti-ICAM1 Antibody被引用在39文献中。

## Selected Validation Data



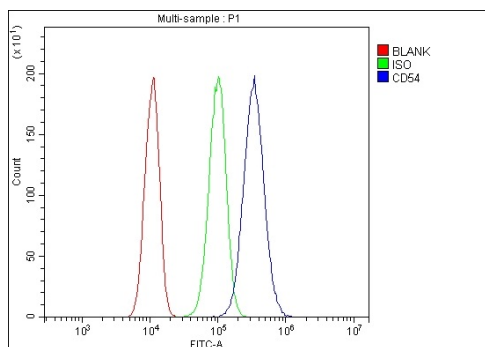
IHC analysis of ICAM1 using anti-ICAM1 antibody (A00171) .

ICAM1 was detected in a paraffin-embedded section of human bladder urothelial carcinoma tissue. The tissue section was incubated with rabbit anti-ICAM1 Antibody (A00171) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.



IF analysis of ICAM1 using anti-ICAM1 antibody (A00171).

ICAM1 was detected in an immunocytochemical section of A431 cells. The section was incubated with rabbit anti-ICAM1 Antibody (A00171) at a dilution of 1:100. DyLight®488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of PC-3 cells using anti-ICAM1 antibody (A00171).

Overlay histogram showing PC-3 cells stained with A00171 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ICAM1 Antibody (A00171) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit 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.