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Anti-ICAM-1 Antibody

Catalog # ABO11743

Product Information

Application	WB, IHC-P
Primary Accession	P13597
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Intercellular adhesion molecule 1(ICAM1) detection. Tested with WB, IHC-P in Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	15894
Other Names	Intercellular adhesion molecule 1, ICAM-1, MALA-2, MyD10, CD54, Icam1, Icam-1
Calculated MW	58844
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Mouse, Rat, By Heat Western blot, 0.1-0.5 □g/ml, Mouse, Rat
Subcellular Localization	Membrane; Single-pass type I membrane protein.
Tissue Specificity	Expressed at low level on a subpopulation of lymphocytes, macrophages, and endothelial cells, but is strongly induced on these cells, and on fibroblasts and epithelial cells.
Source	Eukaryota
Protein Name	Intercellular adhesion molecule 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E.coli-derived mouse ICAM1 recombinant protein (Position: G198-P537). Mouse ICAM1 shares 74% amino acid (aa) sequence identity with rat ICAM1.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the immunoglobulin superfamily. ICAM family.

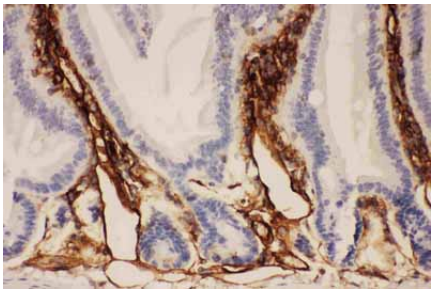
Protein Information

Name	Icam1 {ECO:0000312|MGI:MGI:96392}
Function	Cell adhesion molecule that functions as a receptor ligand of the signaling receptor ITGAL:ITGB2/LFA-1 (lymphocyte-function associated (LFA) molecule 1) ensuring leukocyte cell-cell adhesion, by providing a calibrated system to namely adjust T-cell killing to the antigen stimulation strength. Also functions as a ligand receptor of the signaling receptor ITGAM:ITGB2/MAC-1 ensuring adhesion between stimulated neutrophils and stimulated endothelial cells. During leukocyte trans-endothelial migration, ICAM1 engagement promotes the assembly of endothelial apical cups through ARHGEF26/SGEF and RHOG activation. Promotes cell aggregation in epithelial cells through interaction with MUC1.
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:P05362}; Single-pass type I membrane protein
Tissue Location	Expressed at low level on a subpopulation of lymphocytes, macrophages, and endothelial cells, but is strongly induced on these cells, and on fibroblasts and epithelial cells

Background

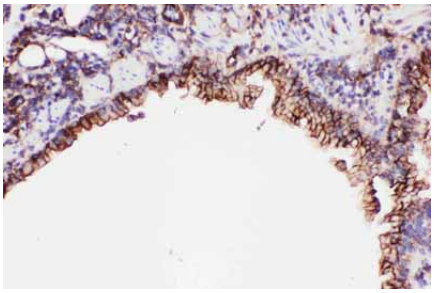
Intercellular adhesion molecule-1 (ICAM-1) is an integral membrane protein, a member of the immunoglobulin superfamily, and a ligand for lymphocyte function-associated (LFA) antigens, a beta 2 leukocyte integrin. The normal function of human ICAM-1 is to provide adhesion between endothelial cells and leukocytes after injury or stress. ICAM-1 binds to leukocyte function-associated antigen (LFA-1) or macrophage-1 antigen (Mac-1). It is found on leukocytes, fibroblasts, epithelial cells and endothelial cells and its expression is regulated by inflammatory cytokines. ICAM-1 has a tissue distribution similar to that of the major histocompatibility complex class II antigens and is likely to play a role in inflammatory responses.

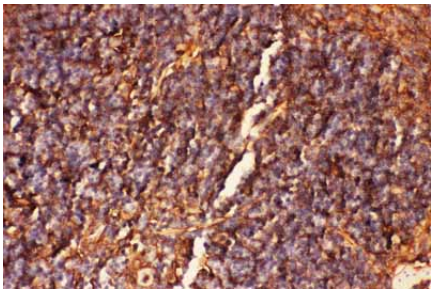
Images



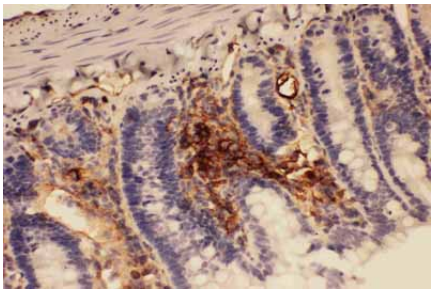
Anti-ICAM1 Picoband antibody, ABO11743-1.JPGIHC(P): Mouse Intestine Tissue

Anti-ICAM1 Picoband antibody, ABO11743-2.JPGIHC(P): Mouse Lung Tissue

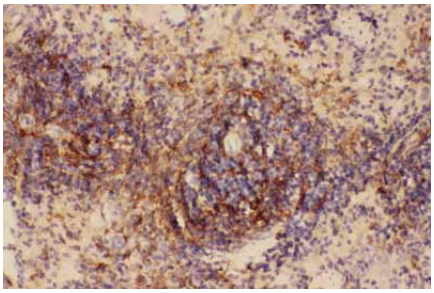




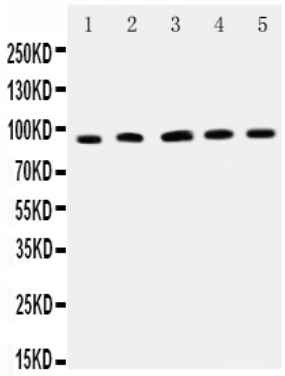
Anti-ICAM1 Picoband antibody, ABO11743-3.JPGIHC(P): Mouse Spleen Tissue



Anti-ICAM1 Picoband antibody, ABO11743-4.JPGIHC(P): Rat Intestine Tissue



Anti-ICAM1 Picoband antibody, ABO11743-5.JPGIHC(P): Rat Spleen Tissue



Anti-ICAM1 Picoband antibody, ABO11743-6.jpgAll lanes: Anti-ICAM1(ABO11743) at 0.5ug/mlLane 1: Rat Thymus Tissue Lysate at 40ugLane 2: Rat Spleen Tissue Lysate at 40ugLane 3: PC12 Whole Cell Lysate at 40ugLane 4: NRK Whole Cell Lysate at 40ugLane 5: RH35 Whole Cell Lysate at 40ugPredicted bind size: 58KDObserved bind size: 90KD