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Anti-ICAM-1 Antibody

Catalog # ABO11729

Product Information

Application	WB, IHC-P
Primary Accession	P05362
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Intercellular adhesion molecule 1(ICAM1) detection. Tested with WB, IHC-P in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	3383
Other Names	Intercellular adhesion molecule 1, ICAM-1, Major group rhinovirus receptor, CD54, ICAM1
Calculated MW	57825
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, By Heat Western blot, 0.1-0.5 □g/ml, Human
Subcellular Localization	Membrane; Single-pass type I membrane protein.
Source	Eukaryota
Protein Name	Intercellular adhesion molecule 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	NSO-derived human ICAM1 recombinant protein (Position: Q28-E480). Human ICAM1 shares 55% and 53% amino acid (aa) sequences identity with mouse and rat ICAM1, respectively.
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.

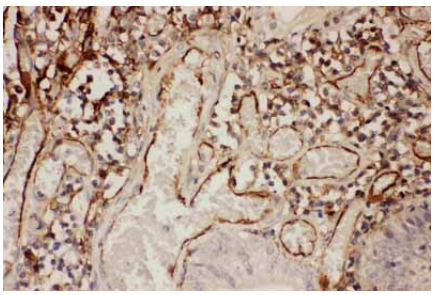
Protein Information

Name	ICAM1 (HGNC:5344)
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 (PubMed:3086451, PubMed:3340213, PubMed:38195629). Also functions as a ligand receptor of the signaling receptor ITGAM:ITGB2/MAC-1 ensuring adhesion between stimulated neutrophils and stimulated endothelial cells (PubMed:1980124). During leukocyte trans-endothelial migration, ICAM1 engagement promotes the assembly of endothelial apical cups through ARHGEF26/SGEF and RHOG activation (PubMed:17875742). Promotes cell aggregation in epithelial cells through interaction with MUC1 (PubMed:11173916).
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Expressed on non-hematopoietic cells such as vascular endothelial cells, thymic epithelial cells, certain other epithelial cells, and fibroblasts, and on hematopoietic cells such as tissue macrophages, mitogen-stimulated T lymphocyte blasts, and germinal center dendritic cells in tonsils, lymph nodes, and Peyer's patches (PubMed:3086451). Expressed in low amounts on peripheral blood leukocytes (PubMed:3086451).

Background

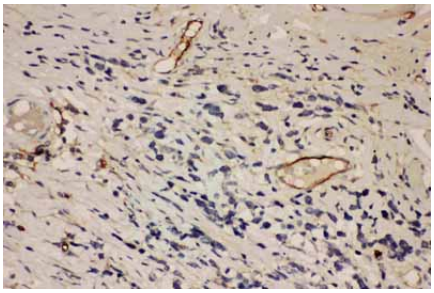
CD54, also known as ICAM-1. Intercellular adhesion molecule-1 (ICAM1) is a ligand for lymphocyte function-associated (LFA) antigens. Intercellular adhesion molecule-1 (ICAM-1) is an integral membrane protein, a member of the immunoglobulin superfamily, and a ligand for LFA-1, a beta 2 leukocyte integrin. ICAM1 protein is the major human rhinovirus receptor. 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).

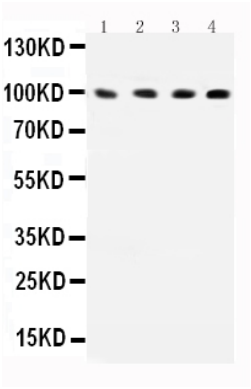
Images



Anti-ICAM1 Picoband antibody, IHC(P)IHC(P): Human Intestinal Cancer Tissue

Anti-ICAM1 Picoband antibody,IHC(P) IHC(P): Human Lung Cancer Tissue





Anti-ICAM1 Picoband antibody, Western blottingAll lanes: Anti-ICAM1(ABO11729) at 0.5ug/mlLane 1: HEPG2 Whole Cell Lysate at 40ugLane 2: K562 Whole Cell Lysate at 40ugLane 3: A549 Whole Cell Lysate at 40ugLane 4: HT1080 Whole Cell Lysate at 40ugPredicted bind size: 58KDObserved bind size: 100KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.