

ICAM1 Rabbit pAb

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Catalog # AP52125

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P05362
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57825
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CD54
Epitope Specificity	201-300/537
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Single-pass type I membrane protein.
SIMILARITY	Belongs to the immunoglobulin superfamily. ICAM family contains 5 Ig-like C2-type (immunoglobulin-like) domains.
SUBUNIT	Homodimer (Probable). Interacts with human herpesvirus 8 MIR2 protein (Probable). Interacts with MUC1 and promotes cell aggregation in epithelial cells. Interacts with ARHGEF26/SGEF. Binds to coxsackievirus A21 capsid proteins and acts as a receptor for this virus.
Post-translational modifications	Monoubiquitinated, which is promoted by MARCH9 and leads to endocytosis.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a cell surface glycoprotein which is typically expressed on endothelial cells and cells of the immune system. It binds to integrins of type CD11a / CD18, or CD11b / CD18 and is also exploited by Rhinovirus as a receptor. [provided by RefSeq, Jul 2008].

Additional Information

Gene ID	3383
Other Names	Intercellular adhesion molecule 1, ICAM-1, Major group rhinovirus receptor, CD54, ICAM1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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).

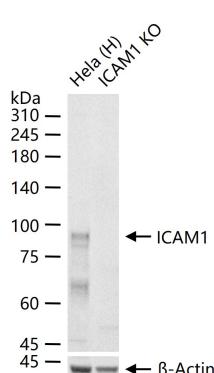
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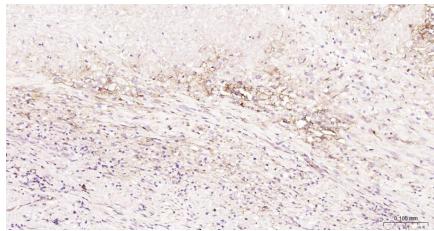
References

Horley K.J., et al. EMBO J. 8:2889-2896(1989).
Takei F., et al. Submitted (APR-1990) to the EMBL/GenBank/DDBJ databases.
Siu G., et al. J. Immunol. 143:3813-3820(1989).
Ballantyne C.M., et al. Nucleic Acids Res. 17:5853-5853(1989).
Ballantyne C.M., et al. Genomics 14:1076-1080(1992).

Images



25 ug total protein per lane of various lysates (see on figure) probed with ICAM1 polyclonal antibody, unconjugated (AP52125) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Prostate Tumor; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ICAM1 Polyclonal Antibody, Unconjugated (AP52125) at 1:200 overnight at 4°C, followed by conjugation to the AP52125-HRP and DAB (C-0010) staining.

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