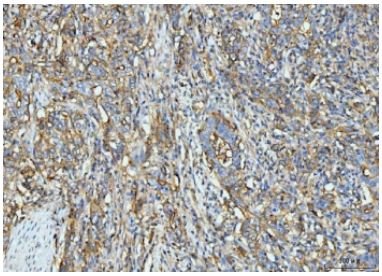
Intercellular Adhesion Molecule 1 Antibody 6F2C3 / LFA-1 Ligand Antibody [clone 6F2C3] (RQ7002)

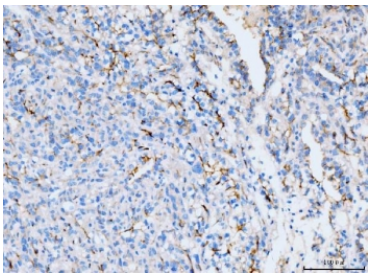
Catalog No.	Formulation	Size
RQ7002	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

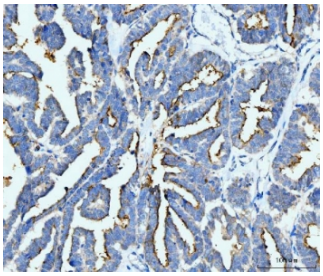
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	6F2C3
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P05362
Applications	Western blot: 0.5-1 ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This Intercellular Adhesion Molecule 1 Antibody 6F2C3 / LFA-1 Ligand Antibody is available for research use only.



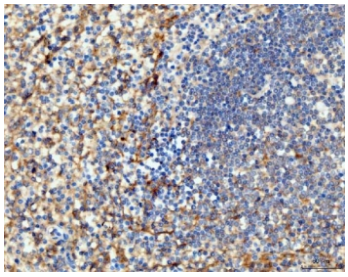
Intercellular Adhesion Molecule 1 Antibody 6F2C3 in Human Rectal Adenocarcinoma IHC. Immunohistochemistry staining of FFPE human moderately differentiated rectal adenocarcinoma tissue with Intercellular Adhesion Molecule 1 Antibody clone 6F2C3 shows prominent membranous and cell-associated staining throughout the tumor tissue. This LFA-1 Ligand Antibody was tested following heat-induced epitope retrieval by boiling tissue sections in pH 8 EDTA for 20 min and allowing them to cool before testing.



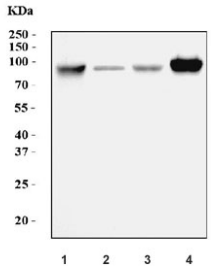
Intercellular Adhesion Molecule 1 Antibody 6F2C3 in Human Renal Carcinoma IHC. Immunohistochemistry staining of FFPE human renal carcinoma tissue with Intercellular Adhesion Molecule 1 Antibody clone 6F2C3 shows heterogeneous staining, with membranous and cell-associated immunoreactivity in subsets of tumor and stromal cells. This LFA-1 Ligand Antibody was tested following heat-induced epitope retrieval by boiling tissue sections in pH 8 EDTA for 20 min and allowing them to cool before testing.



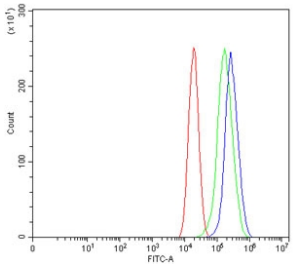
Intercellular Adhesion Molecule 1 Antibody 6F2C3 in Human Ovarian Serous Adenocarcinoma IHC. Immunohistochemistry staining of FFPE human ovarian serous adenocarcinoma tissue with Intercellular Adhesion Molecule 1 Antibody clone 6F2C3 shows distinct membranous staining along epithelial tumor structures, with comparatively weaker staining in surrounding areas. This LFA-1 Ligand Antibody was tested following heat-induced epitope retrieval by boiling tissue sections in pH 8 EDTA for 20 min and allowing them to cool before testing.



Intercellular Adhesion Molecule 1 Antibody 6F2C3 in Human Spleen IHC. Immunohistochemistry staining of FFPE human spleen tissue with Intercellular Adhesion Molecule 1 Antibody clone 6F2C3 shows strong staining in regions surrounding lymphoid follicles, with lower immunoreactivity within the more densely cellular follicular compartment. This LFA-1 Ligand Antibody was tested following heat-induced epitope retrieval by boiling tissue sections in pH 8 EDTA for 20 min and allowing them to cool before testing.



Intercellular Adhesion Molecule 1 Antibody 6F2C3 in Human Cell Lines WB. Western blot testing of human Raji, HeLa, K562, and HepG2 cell lysates with Intercellular Adhesion Molecule 1 Antibody clone 6F2C3 shows predominant bands at approximately 85-100 kDa, with the strongest signal in HepG2 cells. Lanes 1-4: Raji, HeLa, K562, and HepG2, respectively. Although unmodified ICAM1 has a predicted molecular weight of approximately 58 kDa, extensive N-linked glycosylation produces mature forms in the 75-115 kDa range, consistent with the bands detected by this LFA-1 Ligand Antibody.



Intercellular Adhesion Molecule 1 Antibody 6F2C3 in Caco-2 Colorectal Adenocarcinoma Cells FACS. Flow cytometry testing of human Caco-2 colorectal adenocarcinoma cells with Intercellular Adhesion Molecule 1 Antibody clone 6F2C3 at 1 ug/million cells shows a clear rightward shift of the antibody-stained population (blue) relative to the isotype control (green) and cells-alone control (red), demonstrating detectable cell-associated ICAM1. Cells were blocked with goat serum before testing with this LFA-1 Ligand Antibody.

Description

Intercellular Adhesion Molecule 1 Antibody 6F2C3 / LFA-1 Ligand Antibody recognizes ICAM1, a cell-surface glycoprotein and member of the immunoglobulin superfamily. Also known as ICAM-1 and CD54, ICAM1 contains five extracellular immunoglobulin-like domains, a single transmembrane region, and a short cytoplasmic domain. The protein functions as an adhesion molecule that helps coordinate interactions between leukocytes, vascular endothelial cells, and other cell types.

ICAM1 is a major ligand for lymphocyte function-associated antigen 1 (LFA-1), an integrin composed of CD11a and CD18. Binding between ICAM1 and LFA-1 promotes firm adhesion of leukocytes and contributes to their migration across

vascular endothelium into surrounding tissues. ICAM1 can also bind Mac-1, composed of CD11b and CD18. Through these interactions, ICAM1 participates in leukocyte trafficking as well as stable contacts between lymphocytes and antigen-presenting cells during immune responses.

Expression of ICAM1 is regulated by inflammatory signals and can increase substantially following exposure to cytokines and other cellular stimuli. Elevated surface expression enhances the adhesive properties of endothelial, epithelial, and immune cells, facilitating leukocyte recruitment to sites of inflammation. ICAM1 has consequently been investigated in immune activation, inflammatory disorders, vascular biology, tissue injury, and cancer. Soluble forms of ICAM1 can also be released from cells and have been studied in relation to inflammatory and vascular processes.

ICAM1 additionally functions as the cellular receptor for major-group human rhinoviruses, connecting this adhesion molecule with host-pathogen interactions. Extensive N-linked glycosylation contributes to the substantially higher apparent molecular weight of mature ICAM1 compared with the predicted mass of its unmodified polypeptide. Clone 6F2C3 is a mouse monoclonal antibody generated against recombinant human ICAM1 encompassing amino acids Q28-R268. NSJ RQ7002 datasheet

NSJ Bioreagents offers this LFA-1 Ligand Antibody for research into ICAM1 expression and adhesion biology. An Intercellular Adhesion Molecule 1 Antibody can support investigation of leukocyte trafficking, immune cell interactions, inflammation, vascular biology, and mechanisms regulating cell-cell adhesion.

For an alternative monoclonal targeting ICAM1/CD54, see our ICAM1 Antibody ICAM1/6319 / Cell Adhesion Molecule Antibody page.

Application Notes

Optimal dilution of the Intercellular Adhesion Molecule 1 Antibody 6F2C3 / LFA-1 Ligand Antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids Q28-R268) was used as the immunogen for the Intercellular Adhesion Molecule 1 Antibody 6F2C3.

Storage

After reconstitution, the Intercellular Adhesion Molecule 1 Antibody 6F2C3 can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

ICAM1 antibody, ICAM-1 antibody, Intercellular adhesion molecule 1 antibody, Intercellular adhesion molecule-1 antibody, CD54 antibody, LFA-1 ligand antibody, Major rhinovirus receptor antibody

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