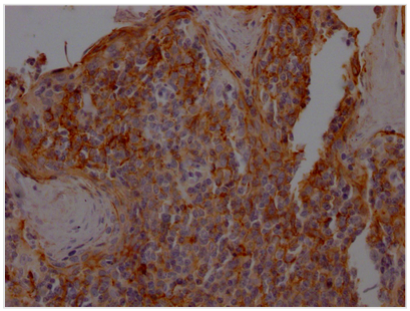
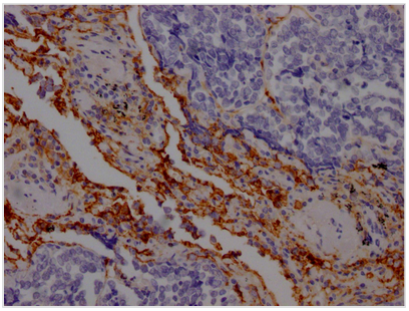
ICAM1 Antibody

Product Code	CSB-RA162789A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P05362
Immunogen	A synthesized peptide derived from human ICAM1
Species Reactivity	Human
Tested Applications	ELISA, IHC, FC; Recommended dilution: IHC:1:50-1:200, FC:1:20-1:200
Relevance	ICAM proteins are ligands for the leukocyte adhesion protein LFA-1 (integrin alpha-L/beta-2). During leukocyte trans-endothelial migration, ICAM1 engagement promotes the assembly of endothelial apical cups through ARHGEF26/SGEF and RHOG activation.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cardiovascular; Immunology; Stem cells
Gene Names	ICAM1
Accession NO.	3E9

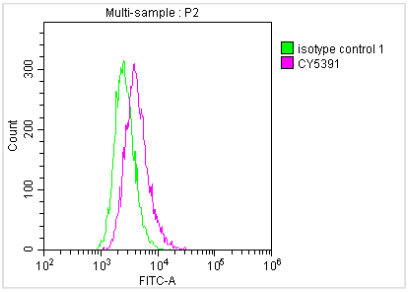
Image



IHC image of CSB-RA162789A0HU diluted at 1:100 and staining in paraffin-embedded human tonsil tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



IHC image of CSB-RA162789A0HU diluted at 1:100 and staining in paraffin-embedded human lung cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



Overlay histogram showing Raji cells stained with CSB-RA162789A0HU (red line) at 1:50. The cells were incubated in 10% normal goat serum to block non-specific protein-protein interactions followedby the antibody (1µg/1*106cells) for 1 h at 4°C.The secondary antibody used was FITC-conjugated goat anti-rabbit IgG (H+L) at 1/200 dilution for 30min at 4°C. Control antibody (green line) was Rabbit IgG (1µg/1*106cells) used under the same conditions. Acquisition of >10,000 events was performed.

Description

The first step in the preparation of recombinant ICAM1 antibody is to obtain the ICAM1 antibody gene. The heavy and light chain genes of the antibody were constructed into a plasma vector and then transfected into suspended mammalian cells transiently. After expression verification, cell supernatant was collected in expanded culture and purified recombinant ICAM1 antibody was obtained using affinity-chromatography. This recombinant ICAM1 antibody has been validated for the detection of ICAM1 protein from Human in the ELISA, IHC, FC.

ICAM1 is an Ig-like transmembrane glycoprotein expressed in most tissues at low levels but readily increased by inflammatory cytokines. Overexpression of ICAM1 has been observed on the endothelial lumen in many pathological states. ICAM1 is involved in cell adhesion, cell signaling, and transendothelial migration of leukocytes to sites of inflammation, and antigen recognition and lymphocyte circulation and activation mediated by ICAM1 influences inflammatory conditions, nervous system development, and immune responses. Upregulation of ICAM1 has been reported in several human malignancies, including breast cancer, lung cancer, and pancreatic cancer.