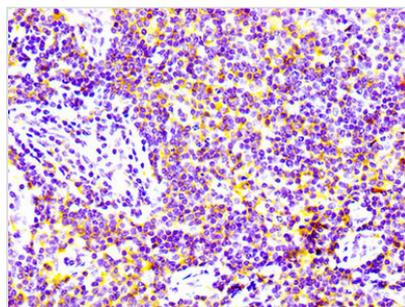




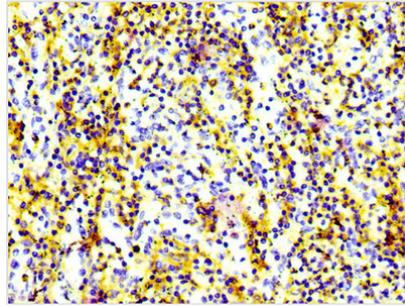
CD97 Antibody

Product Code	CSB-RA004972A0HU
Abbreviation	CD97 antigen
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P48960
Immunogen	A synthesized peptide
Species Reactivity	Human
Tested Applications	ELISA, IHC, IF; Recommended dilution: IHC:1:50-1:500, IF:1:30-1:200
Relevance	Receptor potentially involved in both adhesion and signaling processes early after leukocyte activation. Plays an essential role in leukocyte migration (By similarity).
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	Neuroscience
Gene Names	CD97
Accession NO.	3A7

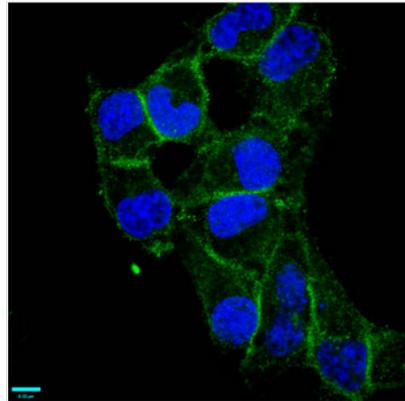
Image



IHC image of CSB-RA004972A0HU diluted at 1:100 and staining in paraffin-embedded human lymph node tissue performed on a Leica Bond™ 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 biotinylated secondary antibody and visualized using an HRP conjugated SP system.



IHC image of CSB-RA004972A0HU diluted at 1:100 and staining in paraffin-embedded human spleen tissue performed on a Leica Bond™ 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 biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunofluorescence staining of HeLa cells with CSB-RA004972A0HU at 1:87.5, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

Description

The CD97 recombinant monoclonal antibody is a highly specific antibody against the human CD97 protein. This CD97 antibody was produced in vitro by transfecting human CD97 monoclonal antibody gene- vector clones into the cell line, followed by affinity-chromatography purification from the tissue culture supernatant (TCS). The mice were immunized with a human CD97 synthetic peptide to produce the human CD97 monoclonal antibody. This CD97 antibody has the same isotype as rabbit IgG. It can be applied in ELISA, IHC, and IF.

CD97 is a neutrophil migratory factor that is widely expressed on hematopoietic cells. It was discovered to be a T-cell activation signal with minimal expression in naive T cells. CD97 has also been identified as a tumor-associated receptor since it is up-regulated in a variety of carcinomas, including gastric, colorectal, pancreatic, and other malignancies. These tumor cells' differentiation, proliferation, invasion, and metastasis are all linked to CD97. In the human immune system, CD97 and its ligand CD55 are significant binding partners. CD97-CD55 binding dysfunction has been associated with autoimmune diseases such as multiple sclerosis, rheumatoid arthritis, and malignancies.