

CD97 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP13768b**Specification**

CD97 Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [P48960](#)**CD97 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 976**Other Names**

CD97 antigen, Leukocyte antigen CD97, CD97, CD97 antigen subunit alpha, CD97 antigen subunit beta, CD97

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13768b was selected from the C-term region of CD97. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CD97 Antibody (C-term) Blocking peptide - Protein Information**Name** ADGRE5 ([HGNC:1711](#))**Function**

Receptor potentially involved in both adhesion and signaling processes early after leukocyte activation. Plays an essential role in leukocyte migration.

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:Q9Z0M6}; Multi-pass membrane protein

Tissue Location

Broadly expressed, found on most hematopoietic cells, including activated lymphocytes, monocytes, macrophages, dendritic cells, and granulocytes. Expressed also abundantly by smooth muscle cells. Expressed in thyroid, colorectal, gastric, esophageal and pancreatic carcinomas too. Expression are increased under inflammatory conditions in the CNS of multiple sclerosis and in synovial tissue of patients with rheumatoid arthritis. Increased expression of CD97 in the synovium

is accompanied by detectable levels of soluble CD97 in the synovial fluid

CD97 Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

CD97 Antibody (C-term) Blocking peptide - Images

CD97 Antibody (C-term) Blocking peptide - Background

This gene is a member of the EGF-TM7 family of class II seven-span transmembrane (7-TM) molecules, likely encoded by a gene cluster on the short arm of chromosome 19. The encoded product is a glycoprotein that is present on the surface of most activated leukocytes and spans the membrane seven times, which is a defining feature of G protein-coupled receptors. The protein has an extended extracellular region with several N-terminal epidermal growth factor (EGF)-like domains, which mediate binding to its cellular ligand, decay accelerating factor (DAF, CD55), a regulatory protein of the complement cascade. The presence of structural features characteristic of extracellular matrix proteins and transmembrane proteins suggests that this protein is a receptor involved in both cell adhesion and signaling processes early after leukocyte activation. Alternative splicing has been observed for this gene and three variants have been found.

CD97 Antibody (C-term) Blocking peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Liu, D., et al. Int. J. Oncol. 36(6):1401-1408(2010) Han, S.L., et al. Int J Colorectal Dis 25(6):695-702(2010) van Eijk, M., et al. Immunol. Lett. 129(2):64-71(2010) Davila, S., et al. Genes Immun. 11(3):232-238(2010)