

Recombinant Human CD97

Cat. No. CD97-26331TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human CD97 (aa 421-529) with a N terminal proprietary tag: predicted molecular weight 37.62 kDa, inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	109 amino acids
Description	This gene encodes a member of the EGF-TM7 subfamily of adhesion G protein-coupled receptors, which mediate cell-cell interactions. These proteins are cleaved by self-catalytic proteolysis into a large extracellular subunit and seven-span transmembrane subunit, which associate at the cell surface as a receptor complex. The encoded protein may play a role in cell adhesion as well as leukocyte recruitment, activation and migration, and contains multiple extracellular EGF-like repeats which mediate binding to chondroitin sulfate and the cell surface complement regulatory protein CD55. Expression of this gene may play a role in the progression of several types of cancer. Alternatively spliced transcript variants encoding multiple isoforms with 3 to 5 EGF-like repeats have been observed for this gene. This gene is found in a cluster with other EGF-TM7 genes on the short arm of chromosome 19.
Molecular Weight	37.620kDa inclusive of tags
Tissue specificity	Broadly expressed, found on most hematopoietic cells, including activated lymphocytes, monocytes, macrophages, dendritic cells, and granulocytes. Expressed

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	also abundantly by smooth muscle cells. Expressed in thyroid, colorectal, gastric, esophageal and p
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	KKQAELEEIYESSIRGVQLRRLSAVNSIFLSHNNTKELNS PILFAFSHLESSDGEAGR DPPAKDVMPGPRQELLCAFWKS DSDRGGHWATEGCQVLGSKNGSTTCQCSH
Sequence Similarities	Belongs to the G-protein coupled receptor 2 family. LN-TM7 subfamily.Contains 5 EGF-like domains.Contains 1 GPS domain.

GENE INFORMATION

Gene Name	CD97 CD97 molecule [Homo sapiens]
Official Symbol	CD97
Synonyms	CD97; CD97 molecule; CD97 antigen; leukocyte antigen CD97; seven transmembrane helix receptor; seven span transmembrane protein; seven transmembrane; heterodimeric receptor associated with inflammation; TM7LN1;
Gene ID	976
mRNA Refseq	NM_001025160

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Protein Refseq	NP_001020331
MIM	601211
Uniprot ID	P48960
Chromosome Location	19p13
Pathway	Class B/2 (Secretin family receptors), organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; GPCRs, Class B Secretin-like, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by GPCR, organism-specific biosystem;
Function	G-protein coupled receptor activity; calcium ion binding; receptor activity; signal transducer activity; transmembrane signaling receptor activity;

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