

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	<p>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.</p>
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: 8.00 Constituents: 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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