

Active Recombinant Human CD47 Protein, His-tagged

Cat. No. CD47-08H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human CD47 (19-141 aa), fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
ProteinLength	129
Description	This gene encodes a membrane protein, which is involved in the increase in intracellular calcium concentration that occurs upon cell adhesion to extracellular matrix. The encoded protein is also a receptor for the C-terminal cell binding domain of thrombospondin, and it may play a role in membrane transport and signal transduction. This gene has broad tissue distribution, and is reduced in expression on Rh erythrocytes. Alternatively spliced transcript variants have been found for this gene.
Form	Liquid
Bio-activity	Measured by its binding ability in a functional ELISA with Human SIRP gamma/CD172g.
Molecular Mass	14.7 kDa

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AA Sequence	QLLFNKTKSVEFTFCNDTVVIPCFVTNMEAQNTTEVYVKWKFKGRDIYTFDGALNKS TVPTDFSSAKIEVSQLLKGDASLKMDKSDAVSHTGNYTCEVTELTREGETIIELKYRV VSWFSPNE
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/mL (determined by absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

Gene Name	CD47 CD47 molecule [Homo sapiens (human)]
Official Symbol	CD47
Synonyms	CD47; CD47 molecule; IAP; OA3; MER6; leukocyte surface antigen CD47; CD47 antigen (Rh-related antigen, integrin-associated signal transducer); CD47 glycoprotein; Rh-related antigen; antigen identified by monoclonal antibody 1D8; antigenic surface determinant protein OA3; integrin associated protein; integrin-associated signal transducer
Gene ID	961

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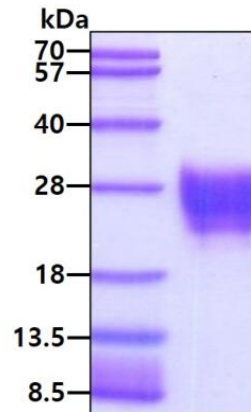
mRNA Refseq [NM_001777](#)

Protein Refseq [NP_001768](#)

MIM [601028](#)

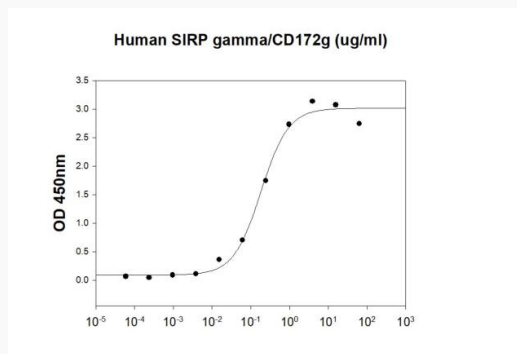
UniProt ID [Q08722](#)

SDS-PAGE



3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

Biological Activity



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Human CD47 is coated at 1 $\mu\text{g}/\text{mL}$ (100 $\mu\text{L}/\text{well}$) can bind Human SIRP
gamma/CD172g in a Functional ELISA assay.

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