

CD47 active protein

Recombinant human CD47 protein

CATALOG # AAA48392	HOST Baculovirus	APPLICATIONS SDS-Page
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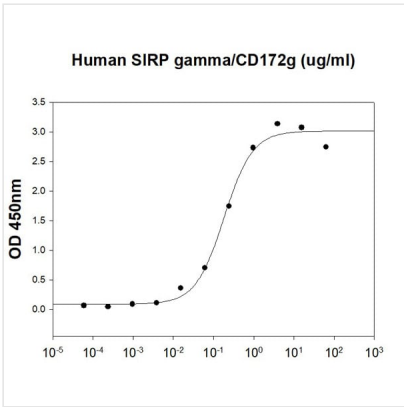
PRODUCT SYNONYMS

CD47; Recombinant human CD47 protein; OA3; IAP; MER6; Leukocyte surface antigen CD47 isoform 1; antigenic surface determinant protein OA3; Integrin-associated protein; CD47 active protein

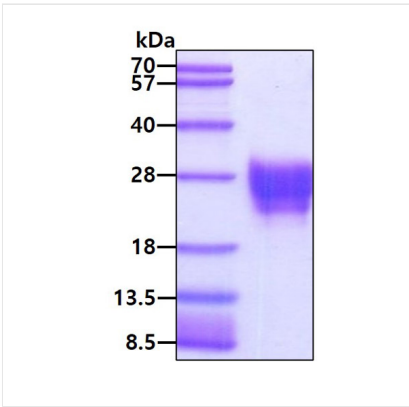
PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	>95% by SDS-PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH7.4) containing 10% glycerol
Concentration	1mg/ml (determined by absorbance at 280nm) (varies by lot)
Sequence Positions	19-141aa
Sequence	QLLFNKT KSV EFTFCNDTVV IPCFVTNMEA QNTTEVYVKW KFKGRDIYTF DGALNKSTVP TDFSSAKIEV SPLLKGDASL KMDKSDAVSH TGNYTCEVTE LTREGETIIE LKYRVVSWFS PNE
Applicable Applications for CD47 active protein	Bioactivity, SDS-PAGE
Endotoxin	<1 EU per 1ug of protein (determined by LAL method)
Species	Human
Tag	His-Tag
Predicted N-term	Gln19
Bioactivity	Measured by its binding ability in a functional ELISA with Human SIRP gamma/CD172g
Preparation and Storage	Can be stored at +2C to +8 degree C for 1 week. For long term storage, aliquot and store at -20C to -80 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



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



Bioactivity
Human CD47 is coated at 1 ug/ml (100 ul/well) can bind Human SIRP gamma/CD172g (CAT# ATGP4030) in a Functional ELISA assay.

ADDITIONAL INFORMATION

Related Product Information for CD47 active protein	CD47, also known as leukocyte surface antigen CD47 isoform 1, has a role in both cell adhesions by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins. It plays an important role in memory formation and synaptic plasticity in the hippocampus. Receptor for SIRPA prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells. Recombinant human CD47, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Product Categories/Family for CD47 active protein	Immunology; Adhesion & Movement; Proteins
References	Iwamoto C et al., (2014) Exp. Hematol. 42(3):163-171. Wang Y et al., (2013) Mol. Ther. 21(10):1919-1929.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502673
NCBI GeneID	961
NCBI Accession #	NP_001768
NCBI GenBank Nucleotide #	NM_001777.3
UniProt Accession #	Q08722; Q53Y71; Q96A60; A8K198; D3DN59
Molecular Weight	14.7kDa (129aa) 18-28KDa (SDS-PAGE under reducing conditions.)
NCBI Official Full Name	leukocyte surface antigen CD47 isoform 1
NCBI Official Synonym Full Names	CD47 molecule
NCBI Official Symbol	CD47
NCBI Official Synonym Symbols	IAP; OA3; MER6
NCBI Protein Information	leukocyte surface antigen CD47
UniProt Protein Name	Leukocyte surface antigen CD47
UniProt Gene Name	CD47
UniProt Synonym Gene Names	MER6; IAP
UniProt Entry Name	CD47_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/baculovirus-active-protein/cd47/48392>