

# Recombinant mouse CD36/SR-B3 protein

Catalog Number: ATGP3210

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

30-439aa

### UniProt No.

Q08857

### NCBI Accession No.

NP\_031669

### Alternative Names

Cd36, CD36 antigen, FAT, GPIV, Scarb3

## PRODUCT SPECIFICATION

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### Molecular Weight

47.4 kDa (419aa)

### Concentration

1mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

CD36, also known as platelet glycoprotein 4, is an integral membrane glycoprotein that has multiple physiological functions. It is broadly expressed on a variety of cell types. As a member of the scavenger receptor family, CD36 is a multiligand pattern recognition receptor that interacts with a large number of structurally dissimilar ligands. It plays a role in lipid metabolism and has been identified as a fatty acid translocase

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necessary for the binding and transport of LCFA in cells and tissues. It also plays a significant role in the initiation and pathogenesis of chronic inflammatory diseases such as Alzheimer's disease and atherosclerosis. It is an integral membrane protein primarily serving as receptors for thrombospondin and collagen and by the erythrocytes infected with the human malaria parasite. Recombinant mouse CD36, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

<ADP>GDMLIEK TIKREVVLEE GTTAFKNWVK TGTTVYRQFW IFDVQNPDDV AKNSSKIKVK QRGPTYRVR YLAKENITQD  
PEDHTVSFVQ PNGAIFEPSL SVGTEDDNFT VLNLAVAAAP HIYQNSFVQV VLNSLIKKSK SSMFQTRSLK ELLWGYKDPF  
LSLVPYPIST TVGVFYND TVDGVYKVFN GKDNISKVAI IESYKGRNL SYWPSYCDMI NGTDAASFPP FVEKSRTLRF  
FSSDICRSY AVFGSEIDLK GIPVYRFVLP ANAFASPLQN PDNHCFCSTEK VISNNCTSYG VLDIGKCKEG KPVYISLPHF  
LHASPVDVSEP IEGLHPNEDE HRTYLDVEPI TGFTLQFAKR LQVNILVKPA RKIEALKNLK RPYIVPILWL NETGTIGDEK  
AEMFKTQVTG KIK<HHHHHH>

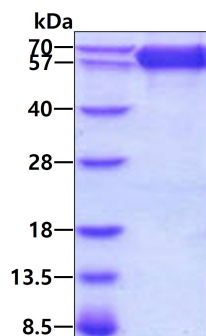
## General References

Febbraio M., et al. (2001) J. Clin. Invest. 108:785-791.

Armstrong LC., et al. (2003) Matrix Biol. 22:63-71.

## DATA

### SDS-PAGE



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