

# CD36 Recombinant monoclonal antibody

Catalog Number: 84078-4-RR

## Basic Information

<b>Catalog Number:</b> 84078-4-RR	<b>GenBank Accession Number:</b> NM_001001548.3	<b>Purification Method:</b> Protein A purification
<b>Concentration:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 948	<b>CloneNo.:</b> 241262F5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P16671-1	<b>Recommended Dilutions:</b>
<b>Isotype:</b> IgG	<b>Full Name:</b> CD36 molecule (thrombospondin receptor)	WB: 1:2000-1:10000
<b>Immunogen Catalog Number:</b> EG1070	<b>Calculated MW:</b> 53 kDa	IHC: 1:500-1:2000
	<b>Observed MW:</b> 75-85 kDa	IF-P: 1:250-1:1000

## Applications

### Tested Applications:

WB, IHC, IF-P, ELISA

### Species Specificity:

human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : human peripheral blood platelets, human placenta tissue

IHC : human placenta tissue,

IF-P : human placenta tissue,

## Background Information

CD36, also named as GP3B and GP4, is a membrane glycoprotein present on platelets, monocytes, erythroid precursors, endothelial cells, and several tumor cell lines. CD36 binds to collagen, thrombospondin, anionic phospholipids, long chain fatty acids and may function in the transport and/or as a regulator of fatty acid transport and oxidized LDL. CD36 may function as a cell adhesion molecule. It mediates cytoadherence of Plasmodium falciparum parasitized erythrocytes. Mutation of CD36 will cause platelet glycoprotein IV deficiency which known as CD36 deficiency. Genetic variations in CD36 are associated with susceptibility to coronary heart disease type 7 (CHDS7).

## Storage

### Storage:

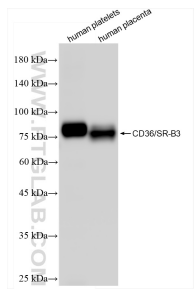
Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

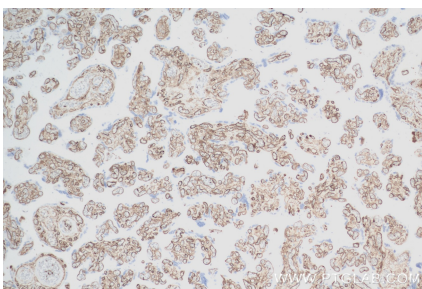
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

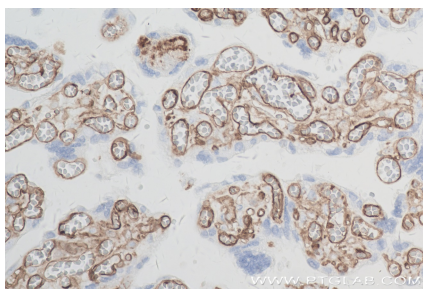
Selected Validation Data



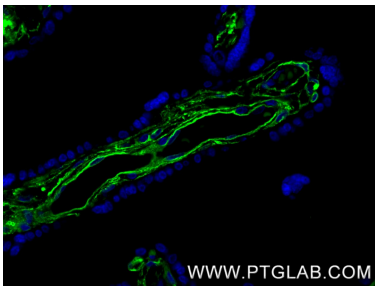
Various lysates were subjected to SDS PAGE followed by western blot with 84078-4-RR (CD36 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



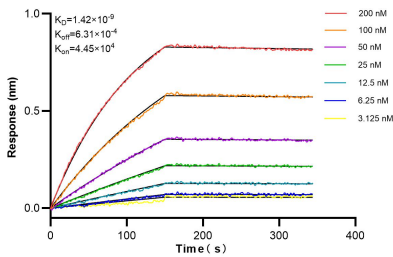
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 84078-4-RR (CD36 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 84078-4-RR (CD36 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human placenta tissue using CD36 antibody (84078-4-RR, Clone: 241262F5 ) at dilution of 1:500 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 84078-4-RR against Human CD36 were performed. The affinity constant is 1.42 nM.