

For Research Use Only

# CD36 Polyclonal antibody

Catalog Number: 18836-1-AP

Featured Product

96 Publications



## Basic Information

|   |  |  |
|---|--|--|
| <b>Catalog Number:</b><br>18836-1-AP  | <b>GenBank Accession Number:</b><br>BC008406                 | <b>Purification Method:</b><br>Antigen affinity purification         |
| <b>Size:</b><br>150ul, Concentration: 900 µg/ml by Nanodrop and 300 µg/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>948                                 | <b>Recommended Dilutions:</b><br>WB 1:500-1:2000<br>IHC 1:400-1:1000 |
| <b>Source:</b><br>Rabbit  | <b>Full Name:</b><br>CD36 molecule (thrombospondin receptor) |  |
| <b>Isotype:</b><br>IgG  | <b>Calculated MW:</b><br>472 aa, 53 kDa                      |  |
|   | <b>Observed MW:</b><br>88 kDa                                |  |

## Applications

### Tested Applications:

IHC, WB, ELISA

### Cited Applications:

IHC, WB

### Species Specificity:

human

### Cited Species:

human, pig, rat

**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, HepG2 cells

IHC : human spleen tissue, human heart tissue

## Background Information

CD36, also named as GP3B and GP4, is an 88-kDa 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).

## Notable Publications

| Author      | Pubmed ID | Journal                            | Application |
|-------------|-----------|------------------------------------|-------------|
| Linfeng Ma  | 33007364  | Toxicology                         | WB          |
| Meng Zhang  | 28961281  | PLoS One                           | WB, IHC     |
| Shuyun Yang | 34603464  | Evid Based Complement Alternat Med | WB          |

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

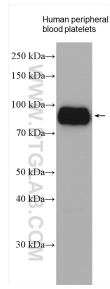
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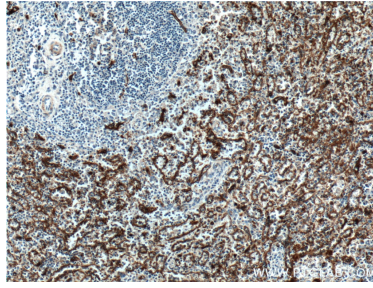
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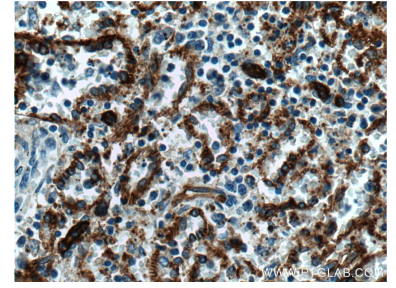
## Selected Validation Data



Human peripheral blood platelets were subjected to SDS PAGE followed by western blot with 18836-1-AP (CD36 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human spleen tissue slide using 18836-1-AP (CD36 antibody) at dilution of 1:800 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human spleen tissue slide using 18836-1-AP (CD36 antibody) at dilution of 1:800 (under 40x lens).