



## Mouse anti CD36 Monoclonal Antibody

Alternative Name(s): platelet glycoprotein 4, fatty acid translocase (FAT)

### Order Information

- **Description:** CD36
- **Catalogue:** 604-330
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** 8C9
- **Application:** IHC(P), FC
- **Reactivity:** Hu

### **ANTIGEN PREPARATION**

A recombinant protein of human CD36

### **BACKGROUND**

CD 36 is a member of the class B scavenger receptor family of cell surface proteins. The molecular mass of the functional receptor is 78–88 kDa, depending on the cell type and on post-translational glycosylations. The receptor consists of 1 extracellular, 2 transmembrane, and two cytoplasmic fragments representing the C-terminal and N-terminal parts of the molecule. CD36 is present on the surface of platelets, endothelial cells, macrophages, dendrite cells, adipocytes, striated muscle cells, and hematopoietic cells. It binds thrombospondin, long chain fatty acids, phospholipids, collagen type I, IV, and V, apoptotic cells, oxidized and naïve lipoproteins. It also imports fatty acids inside cells. Defective CD36 is a likely candidate gene for impaired fatty acid metabolism, glucose intolerance, atherosclerosis, arterial hypertension, diabetes, cardiomyopathy, Alzheimer disease, and modification of the clinical course of malaria.

### **PURIFICATION**

The Mouse IgG is purified by Affinity Purification

### **FORMULATION**

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

### **SPECIFICITY**

This antibody recognizes human CD36 protein. The other species are not tested.

### **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at –20oC to –70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: 0.5-5 µg/10<sup>6</sup> cells
- Molecular Weight: 85.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

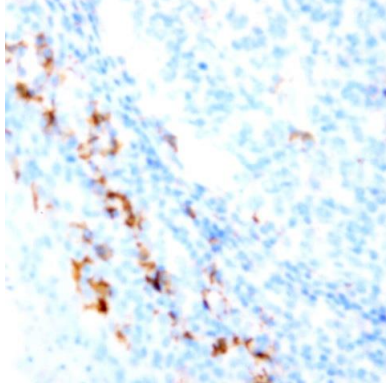
\*Optimal dilutions should be determined by researchers for the specific applications.

### **FOR RESEARCH USE ONLY.**

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## DATA ATTACHMENTS



Immunohistochemistry: Human Tonsil (FFPE) stained with Mouse anti- CD36 (Cat# 604-330 ) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

## REFERENCES

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