

10-7666: Mouse Anti-Human CD36 (Clone : 185-1G2)

| | |
|--------------------------------|-----------------------------|
| Clonality : | Monoclonal |
| Clone Name : | 185-1G2 |
| Application : | FACS |
| Reactivity : | Human |
| Gene : | CD36 |
| Gene ID : | 948 |
| Uniprot ID : | P16671 |
| Format : | Purified |
| Alternative Name : | CD36,GP3B,GP4 |
| Isotype : | Mouse IgG2a, kappa |
| Immunogen Information : | Stimulated human leukocytes |

Description

Recognizes a protein of 80kDa-90kDa, identified as CD36 (Workshop IV; Code P-26). Its epitope maps between aa155-183. It is expressed on platelets, monocytes and macrophages, microvascular endothelial cells, erythrocyte precursors, mammary epithelial cells, and some macrophage derived dendritic cells. CD36 acts as a receptor for thrombospondin (TSP), collagen types I, IV and V, *P. falciparum* malaria-infected erythrocytes, and sickle erythrocytes. It also functions as a scavenger receptor, mediating macrophage uptake of oxidized low-density lipoprotein (LDL) and recognition of apoptotic polymorphonuclear leukocytes (PMN). CD36 plays a role in platelet aggregation, macrophage foam cell development, inflammation, and the tissue ischemia observed in sickle cell disease and cerebral malaria. Note that 1-4% of Japanese and East Asia population lack CD36. This MAb blocks adhesion of *P. falciparum* parasitized red blood cells to CD36 and strongly inhibits collagen-induced platelet aggregation.

Product Info

| | |
|----------------------------|---|
| Amount : | 100 µg |
| Purification : | Affinity Chromatography |
| Content : | 100 µg in 500 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic. |
| Storage condition : | Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles. |

Application Note

Functional Studies (Order Ab without Azide); Flow Cytometry (0.5-1µg/million cells in 0.1ml); Immunofluorescence (0.5-1µg/ml); Optimal dilution for a specific application should be determined.

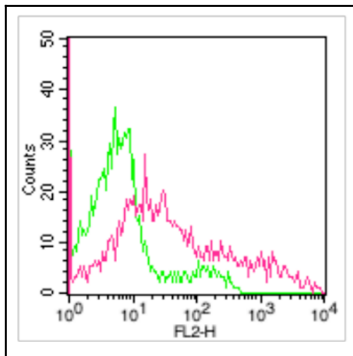


Figure 1: Cell surface FLOW staining of PBMC (monocytes gated). Green: Isotype control, Red: Cd36 (10-7666). 0.5 µg antibody was used. Goat anti-mouse PE conjugated secondary antibody was used.