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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.

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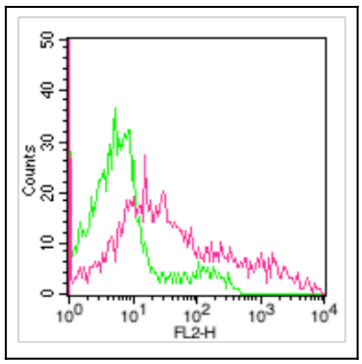

Figure 1: Cell surface FLOW staining of PBMC (monocytes gated). Green: Isotype control, Red: Cd36 (10-7666). 05 µg antibody was used. Goat anti-mouse PE conjugated secondary antibody was used.