

Datasheet



Mouse mAb to **CD36**
Clone **185-1G2**
Isotype **IgG2b-κ**

Source

A BALB/c mouse was immunized with stimulated human leucocytes.
Fusion partner: NS-1.

Specifications

CD36 is a 80-90 kDa protein, 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. CD36 plays a role in platelet aggregation, macrophage foam cell development, inflammation, and the tissue ischemia observed in sickle cell disease and cerebral malaria. 185-1G2 blocks adhesion of parasitized red blood cells to CD36 and strongly inhibits collagen-induced platelet aggregation (epitope within aa155-183; VIth HLDA workshop).

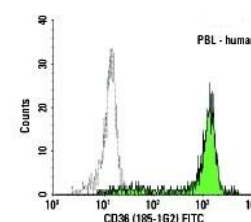


Figure 1: Human PBL stained with 185-1G2 (FACS).

Species reactivity

Positive: human.

Applications

Demonstration of CD36. Staining of TSH activated endothelial cells, granular layer of skin, monocytes/macrophages, erythroblast, B-cell (weak), adipocytes.

| Flow cytometry | Frozen sections | Immunohistology |
|----------------|-----------------|-----------------|
| + | + | + |

Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02% sodium azide.

Stored at 4°C-8°C, shelf life is at least 24 months after purchase.

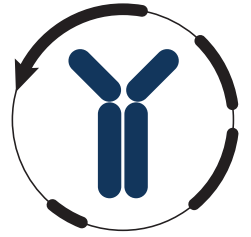
Dilution advice

- Flow cytometry (1-2 µg/million cells in 0,1 ml for 30 min, at 4°C).
- Immunofluorescence (1-2 µg/ml).
- Immunohistology (1-2 µg/ml for 30 min at RT; no antigen retrieval procedure is known to date for staining of formalin-fixed tissues).

Positive control

HEL, U937 or C32 melanoma cells. Platelets, monocytes, macrophages, umbilical vein endothelium, microvascular endothelial cells in tonsil.

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References

- Kishimoto T. et al. Leucocyte typing VI, 636- 643 and 1136, Garland Publishing, Inc., New York and London, (1997).