

Mouse Anti-CD36 (Platelet & Microvessel Marker) [MD172]: MC0025, MC0025RTU7

Intended Use: For Research Use Only

Description: Recognizes a protein of 80kDa-90kDa, identified as CD36. 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.

Specifications:

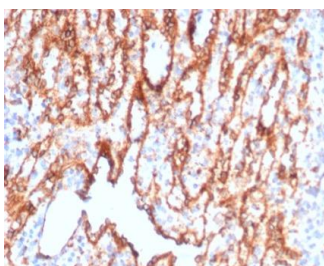
Clone: MD172
 Source: Mouse
 Isotype: IgG2c/k
 Reactivity: Human
 Immunogen: Recombinant full-length human CD36 protein
 Localization: Membrane
 Formulation: Purified antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, WB
 Package:

Description	Catalog No.	Size
CD36 (Platelet & Microvessel Marker) Concentrated	MC0025	1 ml
CD36 (Platelet & Microvessel Marker) Prediluted	MC0025RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Platelets, monocytes, macrophages, microvascular endothelial cells
 Concentrated Dilution: 50-200
 Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human spleen stained with anti-CD36 using DAB

References

1. Increased hepatic CD36 expression with age is associated with enhanced susceptibility to nonalcoholic fatty liver disease.
2. Sheedfar F, et al. Aging (Albany NY). 2014 Apr;6(4):281-95, 2014.
3. Leukocyte Typing VI, p636-643 and p1136-1137, Kishimoto T. et al., eds. Garland Publishing, Inc, New York and London, 1997.
4. Membrane glycoprotein CD36: a review of its roles in adherence, signal transduction, and transfusion medicine. Greenwalt DE et al. Blood 80:1105, 1992.
5. Thrombospondin cooperates with CD36 and the vitronectin receptor in macrophage recognition of neutrophils undergoing apoptosis. Savill J, et al. J Clin Invest. 90(4):1513-1522, 1992.

Doc. 100-MC0025
Rev. B