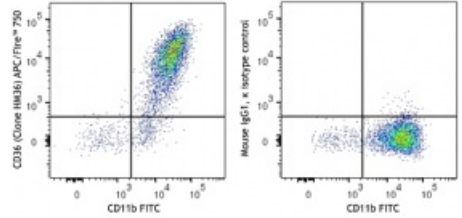


APC/Fire™ 750 anti-mouse CD36

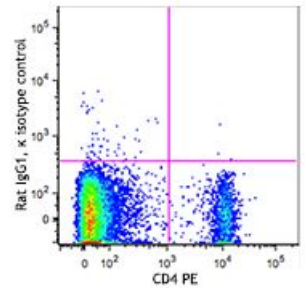
Catalog # / 1113090 / 100 µg
Size: 1113085 / 25 µg
Clone: HM36
Isotype: Hamster IgG
Immunogen: Full length version of the protein
Reactivity: Mouse
Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number: 750 under optimal conditions.
Concentration: 0.2 mg/ml



Thioglycolate-elicited BALB/c mouse peritoneal macrophages were stained with CD36 (clone HM36) APC/Fire™ 750 and CD11b (clone M1/70, left) FITC or Armenian hamster IgG APC/Fire™ 750 isotype control and CD11b (clone M1/70, right) FITC.

Applications:

Applications: Flow Cytometry
Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.



* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.

Application Notes: Anti-mouse CD31 clones 390 and MEC13.3 bind to their respective non-overlapping epitopes in IgD2 of CD31.⁸ Additional reported applications (in the relevant formats) include: immunoprecipitation¹, *in vitro* and *in vivo* blocking of CD31-mediated cell-cell interactions¹⁻⁴, and immunohistochemical staining^{1,5,6} of acetone-fixed frozen sections and zinc-fixed paraffin-embedded sections.

Special Note: The antibody works well on acetone-fixed frozen sections as well as Zinc-fixed paraffin-embedded sections. It sometime works on formalin-fixed and paraformaldehyde-fixed paraffin-embedded tissue sections but inconsistent results have been reported. This antibody is not recommended for formalin-fixed paraffin-embedded sections or for Western blot analysis. The Ultra-LEAF™ Purified antibody (Endotoxin < 0.01 EU/μg, Azide-Free, 0.2 μm filtered) is recommended for functional assays (Cat. No. 102529 and 102530).

Application References:

1. Hamilton R F, 2006. *J. Biol. Chem.* 281:34218.
2. Stuart L M, 2007. *J. Biol. Chem.* doi:10.1074/jbc.M702887200.
3. Hu Q, 2018. *Nat Biomed Eng.* 2(11): 831.

Description: CD36 is a 85 kD glycoprotein, also known as FAT, gpIIIb, or gpIV. It is a member of the class B scavenger receptor family, expressed on platelets, monocytes, macrophages, megakaryocytes, microvasculature, dendritic cells and mammary endothelial cells. The primary ligands for CD36 have been reported to be oxidized low density lipoprotein, anionic phospholipids, and collagens I, IV, and V. CD36 acts as a scavenger receptor thus promoting the removal of apoptotic neutrophils and other apoptotic bodies, as well as clearance of defective erythrocytes.

Antigen References:

1. Barclay A, *et al.* 1997. *The Leukocyte Antigen FactsBook* Academic Press.
2. Greenwalt DE, *et al.* 1992. *Blood* 80:1105.
3. Endemann G, *et al.* 1993. *J. Biol. Chem.* 268:11811.