

Anti-Human CD36 Antibody, Clone FA6-152, FITC

Antibodies

Mouse monoclonal IgG1 antibody
against human, rat CD36, FITC-
conjugated

Catalog #60084FI

100 Tests 20 µL/test



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Product Description

The FA6-152 antibody reacts with CD36, an ~88 kDa transmembrane glycoprotein that functions as a scavenger receptor, cell adhesion molecule and signal transducer on the surface of many types of cells including platelets, monocytes, macrophages, erythrocyte precursors, endothelial and epithelial cells, and some macrophage-derived dendritic cells. The topology of the protein is thought to comprise a large extracellular loop with the N- and C-termini both inserted through the cell membrane. CD36 binds multiple ligands such as thrombospondin, collagen, lipoproteins and long-chain fatty acids, and has evident roles in the phagocytotic clearance of apoptotic cells, inhibition of angiogenesis, metabolism of glucose and fatty acids, inflammation, and the pathogenesis of malaria. Binding of the FA6-152 antibody to CD36 reportedly blocks its interaction with thrombospondin, collagen, apoptotic cells and modified LDL, and induces agglutination of fetal but not adult erythrocytes.

Target Antigen Name:	CD36
Alternative Names:	FAT, GP88, GPIIb, GPIV, platelet glycoprotein 4, platelet glycoprotein IIIb, platelet glycoprotein IV, SCARB3, thrombospondin receptor
Gene ID:	948
Species Reactivity:	Human, Rat
Host Species:	Mouse (BALB/c)
Clonality:	Monoclonal
Clone:	FA6-152
Isotype:	IgG1, kappa
Immunogen:	Fetal erythrocytes
Conjugate:	FITC

Applications

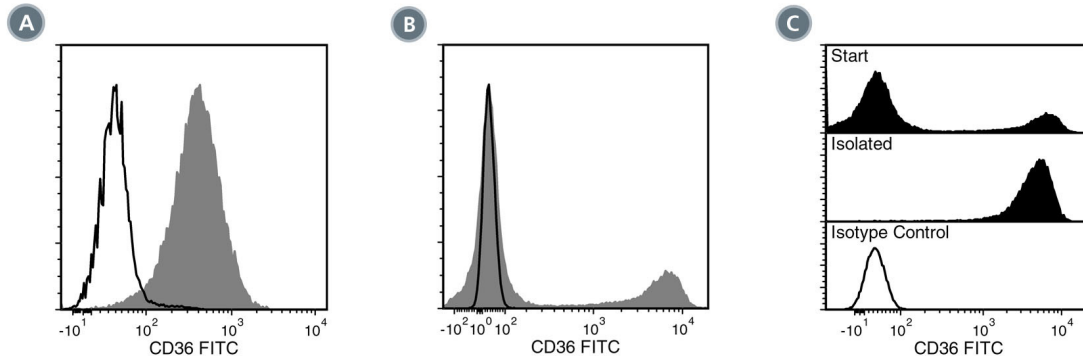
Verified:	FC
Reported:	FC
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Human CD14 Positive Selection Kit (Catalog #18058) and EasySep™ Human Buffy Coat CD14 Positive Selection Kit (Catalog #18088).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	Phosphate-buffered saline containing 0.09% sodium azide and 0.1% (w/v) bovine serum albumin
Purification:	The antibody was purified by affinity chromatography and conjugated with FITC under optimal conditions.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com.
Directions for Use:	For flow cytometry the suggested use of this antibody is 20 µL per 1 x 10 ⁶ cells in 100 µL volume or per 100 µL of whole blood. It is recommended that the antibody be titrated for optimal performance for each application.

Data



- (A) Flow cytometry analysis of human erythroleukemia (HEL) cells labeled with Anti-Human CD36 Antibody, Clone FA6-152, FITC (filled histogram) or a mouse IgG1, kappa FITC isotype control antibody (solid line histogram).
- (B) Flow cytometry analysis of human peripheral blood mononuclear cells (PBMCs) labeled with Anti-Human CD36 Antibody, Clone FA6-152, FITC (filled histogram) or a mouse IgG1, kappa FITC isotype control antibody (solid line histogram).
- (C) Flow cytometry analysis of human PBMCs processed with the EasySep™ Human CD14 Positive Selection Kit and labeled with Anti-Human CD36 Antibody, Clone FA6-152, FITC. Histograms show labeling of PBMCs (Start) and isolated cells (Isolated). Labeling of start cells with a mouse IgG1, kappa FITC isotype control antibody is shown (solid line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

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5. Houssier M et al. (2008) CD36 deficiency leads to choroidal involution via COX2 down-regulation in rodents. *PLoS Med* 5(2): e39. (WB)
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9. Edelman P et al. (1986) A monoclonal antibody against an erythrocyte ontogenic antigen identifies fetal and adult erythroid progenitors. *Blood* 67(1): 56–63. (FC)

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