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. The epitope for FA6-152 reportedly resides within an immunodominant domain of CD36 comprising amino acids 155 - 183.

Target Antigen Name: CD36

Alternative Names: FAT, GP88, GPIIIb, GPIV, platelet glycoprotein 4, platelet glycoprotein IIIb, platelet glycoprotein IV, SCARB3,

thrombospondin receptor

Gene ID: 948

Species Reactivity:Human, RatHost Species:Mouse (BALB/c)Clonality:MonoclonalClone:FA6-152Isotype:IgG1, kappa

Immunogen: Fetal erythrocytes

Conjugate: FITC (Fluorescein isothiocyanate)

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 or per 100 µL of

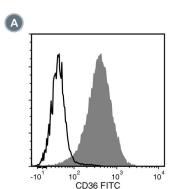
whole blood. It is recommended that the antibody be titrated for optimal performance for each application.

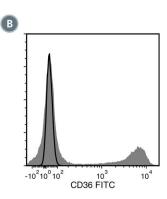
Antibodies

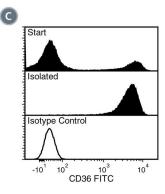
Anti-Human CD36 Antibody, Clone FA6-152, FITC



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 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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