

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

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

Catalog #100-1577

100 Tests

20 µL/test

Product Description

This monoclonal 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:	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
Clonality:	Monoclonal
Clone:	FA6-152
Isotype:	IgG1, kappa
Immunogen:	Fetal erythrocytes
Conjugate:	FITC (Fluorescein isothiocyanate)

Applications

Verified Applications: CellSep, FC

Reported Applications: 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; FCXM: Flow cytometric crossmatch assay; FISH: Fluorescence in situ hybridization; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IHC-F: Immunohistochemistry (frozen-tissue); IHC-P: Immunohistochemistry (paraffin-embedded); IP: Immunoprecipitation; NMR: Nuclear magnetic resonance spectroscopy; RIA: Radioimmunoassay; WB: Western blotting

Properties

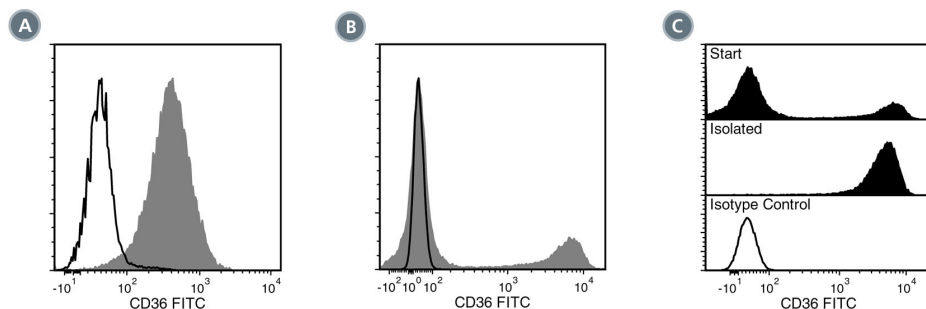
Product Formulation: Phosphate-buffered saline containing 0.09% sodium azide and 0.1% (w/v) bovine serum albumin

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, contact techsupport@stemcell.com.

Directions for Use: For flow cytometry, the suggested use of this antibody is 20 µL per 1 x 10⁶ 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.

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, visit www.stemcell.com/antibodies, or contact us at techsupport@stemcell.com.

References

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