Antibodies

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

**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:** GP88, GPIIib, GPIV, FAT, 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:** Unconjugated

**Applications**

**Verified:** CellSep, FC  
**Reported:** FA/blocking, FC, ICC, IF, IHC, IP, Radioimmunoassay, WB

**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; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; WB: Western blotting

**Properties**

**Formulation:** Phosphate-buffered saline  
**Purification:** The antibody was purified by affinity chromatography.  
**Stability and Storage:** Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, please contact techsupport@stemcell.com.  
**Directions for Use:** For flow cytometry the suggested use of this antibody is ≤ 1.0 μg per 1 x 10^6 cells in 100 μL volume. 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, followed by goat anti-mouse IgG, FITC (filled histogram) or a mouse IgG1, kappa isotype control antibody followed by goat anti-mouse IgG, FITC (open histogram).

(B) Flow cytometry analysis of human peripheral blood mononuclear cells (PBMCs) labeled with Anti-Human CD36 Antibody, Clone FA6-152, followed by goat anti-mouse IgG, FITC (filled histogram) or a mouse IgG1, kappa isotype control antibody followed by goat anti-mouse IgG, FITC (black 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