Anti-Human CD66b Antibody, Clone G10F5, PE

**Antibodies**

Mouse monoclonal IgM antibody against human, chimpanzee CD66b, PE-conjugated

<table>
<thead>
<tr>
<th>Catalog</th>
<th>Quantity</th>
<th>Volume/test</th>
</tr>
</thead>
<tbody>
<tr>
<td>#60086PE</td>
<td>100 tests</td>
<td>5 μL/test</td>
</tr>
<tr>
<td>#60086PE.1</td>
<td>25 tests</td>
<td>5 μL/test</td>
</tr>
</tbody>
</table>

**Product Description**

The G10F5 antibody reacts with CD66b (previously denoted CD67), an ~95 kDa single-chain glycosylphosphatidylinositol (GPI)-linked glycoprotein expressed by neutrophilic and eosinophilic granulocytes. CD66b is a member of the carcinoembryonic antigen (CEA)-like subfamily of proteins within the immunoglobulin superfamily and possesses two Ig-like C2-type domains and one Ig-like V-type domain. In neutrophils, CD66b is localized within granules in the cytoplasm as well as being expressed on the plasma membrane. Surface expression levels increase upon granulocyte activation, an effect induced by stimulators such as phorbol myristate acetate (PMA), calcium ionophore and N-formylmethionyl-leucyl-phenylalanine (FMLP). CD66b appears to play a role as a signaling receptor involved in cell adhesion, phagocytosis and chemotaxis by regulating granulocyte activation and adhesion to several proteins, including CD66c, galectin-3, fibronectin and E-selectin.

**Target Antigen Name:** CD66b  
**Alternative Names:** Carcinoembryonic antigen-related cell adhesion molecule 8, CD67, CEACAM8, CGM6, NCA-95  
**Gene ID:** 1088  
**Species Reactivity:** Human, Chimpanzee  
**Host Species:** Mouse  
**Clonality:** Monoclonal  
**Clone:** G10F5  
**Isotype:** IgM, kappa  
**Immunogen:** Human granulocytes  
**Conjugate:** PE

**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 Myeloid Positive Selection Kit (Catalog #18653) and EasySep™ Human Whole Blood CD66b Positive Selection Kit (Catalog #18682); partial blocking may be observed, as well as EasySep™ HLA Whole Blood CD15 Positive Selection Kit (Catalog 18681HLA) and EasySep™ HLA Whole Blood CD33 Positive Selection Kit (Catalog #18287HLA).

**Properties**

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) bovine serum albumin  
**Purification:** The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.  
**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 5 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.

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
Data

(A) Flow cytometry analysis of human whole blood nucleated cells labeled with Anti-Human CD66b Antibody, Clone G10F5, PE (filled histogram) or Mouse IgM, kappa Isotype Control Antibody, Clone MM-30, PE (Catalog #60069PE; black line histogram).

(B) Flow cytometry analysis of human buffy coat nucleated cells processed with the EasySep™ HLA Whole Blood CD15 Positive Selection Kit and labeled with Anti-Human CD66b Antibody, Clone G10F5, PE. Histograms show labeling of buffy coat nucleated cells (Start) and isolated cells (Isolated). Labeling of start cells with Mouse IgM, kappa Isotype Control Antibody, Clone MM-30, PE is shown (open histogram).

(C) Flow cytometry analysis of whole blood nucleated cells processed with the EasySep™ HLA Whole Blood CD33 Positive Selection Kit and labeled with Anti-Human CD66b Antibody, Clone G10F5, PE. Histograms show labeling of whole blood nucleated cells (Start) and isolated cells (Isolated). Labeling of start cells with Mouse IgM, kappa Isotype Control Antibody, Clone MM-30, PE is shown (open 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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