Anti-Human CD32 Antibody, Clone IV.3

**Antibodies**

Mouse monoclonal IgG2b antibody against human CD32, unconjugated

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<th>Catalog #</th>
<th>100 μg</th>
<th>0.5 mg/mL</th>
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**Product Description**

The IV.3 antibody reacts with human CD32 (FcγRII), an ~40 kDa type 1 transmembrane glycoprotein that mediates several functions including phagocytosis, cytotoxicity, immunomodulation and platelet aggregation. CD32 is encoded by three genes (A, B, C) and at least 6 isoforms are generated via alternative mRNA splicing, i.e., Ila1, Ila2, Iib1, Iib2, Iib3 and Iic. All isoforms are expressed by monocytes/macrophages, placental trophoblasts and endothelial cells. In addition, the Iib isoform is expressed by B cells, and the Ila isoform by platelets, granulocytes and, weakly, by B cells. Isoform Iic is expressed by NK cells and neutrophils. CD32 binds weakly to the Fc region of monomeric IgG but more strongly to IgG aggregates and immune complexes. These interactions can result in non-specific labeling in antibody-based detection and cell separation experiments and the IV.3 antibody may be employed as a blocking antibody to reduce non-specific binding. The IV.3 antibody binds most strongly to the Ila isoforms of CD32, with the epitope mapped to amino acids 132 - 137 [FSHLDP] in domain 2, within the ligand binding site.

**Target Antigen Name:** CD32  
**Alternative Names:** FCR II, FcγRII  
**Gene ID:** 2212  
**Species Reactivity:** Human  
**Host Species:** Mouse  
**Clonality:** Monoclonal  
**Clone:** IV.3  
**Isotype:** IgG2b, kappa  
**Immunogen:** K-562 human erythromyeloblastoid leukemia cell line  
**Conjugate:** Unconjugated

**Applications**

Verified: Blocking, CellSep, FC  
Reported: FA, FC, ICC, IHC, WB  
Special Applications: This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Human T Cell Enrichment Kit (Catalog #19051) and EasySep™ Human CD4+ T Cell Enrichment Kit (Catalog #19052).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; 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. Addition of 0.1% sodium azide (final) is recommended once the vial has been opened. For product expiry date, please contact techsupport@stemcell.com.  
**Directions for Use:** The suggested use of this antibody is: FC and blocking, < 1 μg 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.
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Data

Flow cytometry analysis of human peripheral blood mononuclear cells (PBMCs) labeled with Anti-Human CD32 Antibody, Clone IV.3, followed by Goat Anti-Mouse IgG (H+L) Antibody, Polyclonal, FITC (Catalog #60138FI; filled histogram), or Mouse IgG2b, kappa Isotype Control Antibody, Clone MPC-11 (Catalog #60072), followed by Goat Anti-Mouse IgG (H+L) Antibody, Polyclonal, FITC (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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