Anti-Human CD32 Antibody, Clone FLI8.26, FITC

Antibodies

Mouse monoclonal IgG2b antibody against human, rhesus, cynomolgus CD32, FITC-conjugated

Catalog #60135FI 100 Tests 20 µL/test

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Product Description

The FLI8.26 antibody reacts with human CD32 (FcγRII), an ~40 kDa type 1 transmembrane glycoprotein that mediates several functions including phagocytosis, cytotoxicity, immunomodulation, and platelet aggregation. The FLI8.26 antibody cross-reacts with monocytes, granulocytes, and platelets. CD32 is encoded by three genes (A, B, C) and at least 6 isoforms are generated via alternative mRNA splicing, i.e., IIa1, IIa2, 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 IIa isoform by platelets, granulocytes and, weakly, by B cells. Isoform IIc is expressed by NK cells and neutrophils. Clone FLI8.26 is reactive with both FcγRIIa and FcγRIIb and inhibits binding of the FcγRIIa-specific antibody, clone IV.3, in flow cytometry analyses, suggesting that these clones may share a common or overlapping epitope on FcγRIIa. 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 FLI8.26 antibody may be used as a blocking antibody to reduce non-specific binding.

Target Antigen Name:	CD32
Alternative Names:	FCR II, FcγRII
Gene ID:	2212
Species Reactivity:	Human, Rhesus, Cynomolgus, Baboon, Chimpanzee
Host Species:	Mouse (BALB/c)
Clonality:	Monoclonal
Clone:	FLI8.26
Isotype:	IgG2b, kappa
Immunogen:	Human erythroleukemia cell line K562
Conjugate:	FITC

Applications

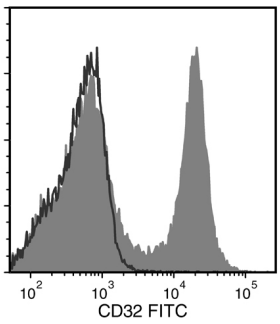
Verified:	FC
Reported:	FC

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 0.1% bovine serum albumin and < 0.1% sodium azide
Purification:	The antibody was purified by affinity chromatography.
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. It is recommended that the antibody be titrated for optimal performance for each application.

Data



Flow cytometry analysis of human peripheral blood mononuclear cells (PBMCs) labeled with Anti-Human CD32 Antibody, Clone FLI8.26, FITC (filled histogram), or Mouse IgG2b, kappa Isotype Control Antibody, Clone MPC-11, FITC (Catalog #60072FI; 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

1. Bazzi S et al. (2015) Analysis of the immunomodulatory properties of two heat-killed mycobacterial preparations in a human whole blood model. Immunobiology 220(12): 1293–304.
2. van Royen-Kerkhof A et al. (2005) A novel human CD32 mAb blocks experimental immune haemolytic anaemia in FcgammaRIIA transgenic mice. Br J Haematol 130(1): 130–7. (FC)
3. Ierino FL et al. (1993) Mapping epitopes of human Fc gamma RII (CDw32) with monoclonal antibodies and recombinant receptors. J Immunol 150(5): 1794–803.