

# CD32 (Fc Gamma RIIa) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone 7.3] Catalog # AH11200

#### **Product Information**

ApplicationIF, FCPrimary AccessionP12318Other Accession2212, 352642ReactivityHumanHostMouseClonalityMonoclonal

Isotype Mouse / IgG1, kappa

Clone Names 7.3 Calculated MW 35001

### **Additional Information**

**Gene ID** 2212

Other Names Low affinity immunoglobulin gamma Fc region receptor II-a, IgG Fc receptor

II-a, CDw32, Fc-gamma RII-a, Fc-gamma-RIIa, FcRII-a, CD32, FCGR2A, CD32,

FCG2, FCGR2A1, IGFR2

**Application Note** IF~~1:50~200 FC~~1:10~50

**Storage** Store at 2 to 8°C.Antibody is stable for 24 months.

**Precautions** CD32 (Fc Gamma RIIa) Antibody - With BSA and Azide is for research use

only and not for use in diagnostic or therapeutic procedures.

#### **Protein Information**

Name FCGR2A

**Synonyms** CD32, FCG2, FCGR2A1, IGFR2

**Function** Binds to the Fc region of immunoglobulins gamma. Low affinity receptor. By

binding to IgG it initiates cellular responses against pathogens and soluble

antigens. Promotes phagocytosis of opsonized antigens.

**Cellular Location** Cell membrane; Single-pass type I membrane protein

**Tissue Location** Found on monocytes, neutrophils and eosinophil platelets

## **Background**

This MAb reacts with a CD32 (FcgRII) epitope (cluster-4). It displays a stronger reaction with Daudi than with U937 cells. The epitope is located in domain 2 of FcgRIIa. Its Fab'2 fragments block immune complex binding. CD32 (Fc?RII) is a type 1 transmembrane glycoprotein that mediates several functions including phagocytosis, cytotoxicity, and immunomodulation as well as platelet aggregation. Three genes (A, B, and C) encode CD32 and at least 6 isoforms are generated via alternative mRNA splicing, i.e., IIa1, IIa2, IIb1, IIb2, IIb3 and IIc. Monocytes/macrophages, placental trophoblasts and endothelial cells express all isoforms. In addition, the IIb isoform is expressed by B cells, and the IIa isoform by platelets, granulocytes and, weakly, by B cells. NK cells and neutrophils express Isoform IIc. CD32 binds weakly to the Fc region of monomeric IgG but more strongly to IgG aggregates and immune complexes.

#### References

Ierino et al., J. Immunol, 150: 17941803 (1993)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.