

## Product datasheet for **AM26773PU-N**

### CD32A (FCGR2A) Mouse Monoclonal Antibody [Clone ID: 3D3]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	3D3
Applications:	FC
Recommended Dilution:	<b>Flow cytometry.</b>
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified glycosylated recombinant human FcgammaRIIa2
Specificity:	This antibody recognizes CD32, a 40 kDa polymorphic transmembrane glycoprotein serving as the low affinity receptor for aggregated IgG. This antibody recognizes CD32 on B cells of all donors, but on platelets, monocytes, and granulocytes of only some donors (131R variant, but not 131H variant).
Formulation:	Phosphate buffered saline (PBS) State: Purified State: Liquid Ig fraction Preservative: 15 mM sodium azide, approx. pH 7.4
Concentration:	lot specific
Purification:	Protein-A affinity chromatography (> 95% pure by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. <b>DO NOT FREEZE!</b>
Stability:	Shelf life: one year from despatch.
Gene Name:	Fc fragment of IgG receptor IIa
Database Link:	<a href="#">Entrez Gene 2212 Human P12318</a>



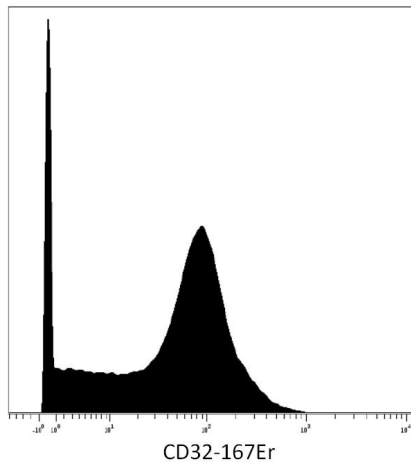
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**Background:**

CD32 (FcγRII) is a low affinity receptor for aggregated IgG. It is strongly expressed on monocytes, granulocytes, myeloid and myeloblastic cell lines, and weakly on B cells, CD34+ bone marrow cells, and resting and activated platelets. After binding its ligand, CD32 induces IgG-mediated phagocytosis and oxidative burst in monocytes and neutrophils, whereas in B cells it mediates a negative signal. This polymorphic transmembrane glycoprotein is expressed not only in the activating (CD32a) and inhibitory isoform (CD32b), but also in individual variants with differing avidities for IgG subtypes (e.g. the CD32a131R and CD32a131H allotypes).

**Synonyms:**

Fc-gamma RII-a, Fc-gamma-RIIa, CDw32, FCGR2A, FCG2, FCGR2A1, IGFR2

**Product images:**

Surface staining (mass cytometry) of human peripheral blood with anti-CD32 (3D3) 167Er. Gated on singlets.