

Mouse monoclonal anti human CD32 (FcγRIIA) **(Azide-free & Low endotoxin)**

ORDERING INFORMATION

Catalog Number:	gAP-0222
Size:	1.00 mg
Storage:	< -20° C
Immunogen:	Human erythromyeloblastoid leukemia cells
Ig Type:	Mouse IgG2b
Clone	AP-MAB1622
Endotoxin Level	< 0.002EU/μg IgG*
Applications:	Cell Isolation, IHC, ICC, FC and Blocking

Description: Human CD32 (FcγRII) is 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., 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. 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.

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse immunized with **Human erythromyeloblastoid leukemia cells**).

Formulation: The IgG fraction of **culture supernatant** was purified by Protein A/G affinity chromatography and lyophilized from a 0.2 μm filtered solution in phosphate-buffered saline (PBS, **Azide Free**).

Reconstitution: Reconstitute the antibody with sterile PBS and the reconstituted antibody can be aliquoted and stored frozen at < -20 for at least for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.** Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C.

***Endotoxin Level:** Extremely low level of LPS (< 0.002EU/μg IgG)

Application(s):

- 1. Cell Isolation**
- 2. FC**
- 3. Functional Assay**
- 4. ICC, IHC**
- 5. Neutralization and Blocking**
- 6. WB**

*** The antibody is produced by in vitro culture and for research use only**