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# Product datasheet for AM01321PU-N

## CD16 (FCGR3A) Mouse Monoclonal Antibody [Clone ID: DJ130c]

## Product data:

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|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | DJ130c |
| **Applications:** | FC, IHC |
| **Recommended Dilution:** | **Flow Cytometry:** Use 10 µl of 1/20-1/200 diluted antibody to label $1x10^6$ cells in 100 µl.<br>**Immunohistochemistry on Frozen Sections.**<br>**Immunohistochemistry on Paraffin Sections:** This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.<br>***Recommended Positive Control***: Human tonsil. |
| **Reactivity:** | Human |
| **Host:** | Mouse |
| **Isotype:** | IgG1 |
| **Clonality:** | Monoclonal |
| **Immunogen:** | CD34 antigen |
| **Specificity:** | This antibody recognizes Human CD16, a 50-65kD cell surface molecule. It recognizes all polymorphonuclear cells irrespective on their NA phenotype.<br>Studies show that the *DJ130c* antibody recognizes an epitope in the first membrane-distal domain of CD16 and recognizes both CD16a and CD16b and has been demonstrated to cross-react with CD16 from Rhesus macaques, Macaca mulatta (*Xu et al.* 2012). |
| **Formulation:** | PBS<br>State: Purified<br>State: Liquid purified IgG fraction from Tissue Culture Supernatant<br>Preservative: 0.09% Sodium Azide |
| **Concentration:** | lot specific |
| **Purification:** | Affinity Chromatography on Protein G |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing. |
| **Stability:** | Shelf life: one year from despatch. |

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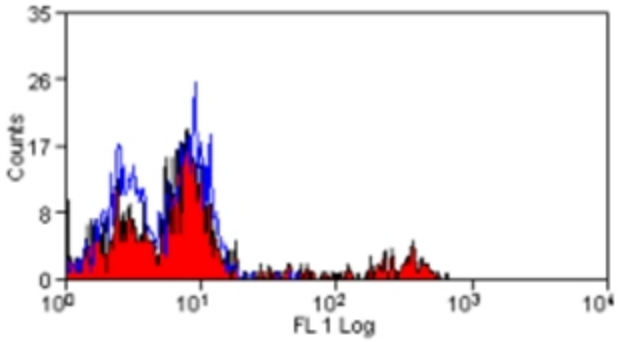
| | |
|---|---|
| **Gene Name:** | Fc fragment of IgG receptor IIIa |
| **Database Link:** | Entrez Gene 2214 Human<br>P08637 |
| **Background:** | CD16 which is the low affinity receptor for IgG (FcRIII), exists as a transmembranous form (Fc gammaRIIIA, or CD16a) and a glycosyl phosphatidylinositol (GPI) anchored form (Fc gammaRIIIB, or CD16b). CD16a is expressed by NK cells, some T cells, and macrophages, whereas CD16b is primarily expressed by granulocytes. In addition, CD16b exists as two allelic variants NA1 and NA2. |
| **Synonyms:** | FCGR3A, CD16A, FCG3, FCGR3, IGFR3, Fc-gamma RIII-alpha, Fc-gamma RIII, Fc-gamma RIIIa, FcRIII, FcRIIIa, FcR-10, IgG Fc receptor III-2 |
| **Protein Families:** | ES Cell Differentiation/IPS, Secreted Protein, Transmembrane |
| **Protein Pathways:** | Fc gamma R-mediated phagocytosis, Natural killer cell mediated cytotoxicity, Systemic lupus erythematosus |

## Product images:




Staining of Human peripheral blood lymphocytes with Mouse anti Human CD16 antibody

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