# Product Datasheet

## Fc gamma RIIIA/CD16a Antibody (C16/1045) [DyLight 680] NBP2-47952FR

Unit Size: 0.1 ml

Store at 4C in the dark.

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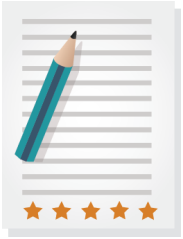

# NBP2-47952FR

Fc gamma RIIIA/CD16a Antibody (C16/1045) [DyLight 680]

| Product Information | |
|---|---|
| **Unit Size** | 0.1 ml |
| **Concentration** | Please see the vial label for concentration. If unlisted please contact technical services. |
| **Storage** | Store at 4C in the dark. |
| **Clonality** | Monoclonal |
| **Clone** | C16/1045 |
| **Preservative** | 0.05% Sodium Azide |
| **Isotype** | IgG1 Kappa |
| **Conjugate** | DyLight 680 |
| **Purity** | Protein A or G purified |
| **Buffer** | 50mM Sodium Borate |

| Product Description | |
|---|---|
| **Host** | Mouse |
| **Gene ID** | 2214 |
| **Gene Symbol** | FCGR3A |
| **Species** | Human |
| **Specificity/Sensitivity** | It recognizes CD16 (Fcgamma RIII), the low-affinity receptor for IgG with an apparent molecular weight of 50-80kDa. Two similar genes represent CD16, CD16A (Fcgamma RIIIA), which exists as a hetero-oligomeric polypeptide-anchored form in macrophages and NK cells and CD16B (Fcgamma RIIIB), which exist as a monomeric GPI-anchored form in neutrophils. Furthermore, there are two known polymorphisms of CD16B, NA-1 and NA-2. Individuals homozygous for NA-2 show a lower phagocytic capacity compared with NA-1. CD16 binds IgG in the form of immune complexes and shows preferential binding of IgG1 and IgG3 isotypes and minimal binding of IgG2 and IgG4. Upon IgG binding, both CD16 isoforms initiate signal transduction cascades that lead to a variety of responses including antibody-dependent cell-mediated cytotoxicity (ADCC), phagocytosis, degranulation and proliferation. |
| **Immunogen** | Recombinant human CD16 protein |
| **Notes** | Dylight (R) is a trademark of Thermo Fisher Scientific Inc. and its subsidiaries. This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet. |

| Product Application Details | |
|---|---|
| **Applications** | Flow Cytometry, Immunofluorescence |
| **Recommended Dilutions** | Flow Cytometry, Immunofluorescence |
| **Application Notes** | Optimal dilution of this antibody should be experimentally determined. |

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**Limitations**
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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