

# Product Datasheet

## Fc gamma RI/CD64 Antibody (H22) [PE] NBP2-81098PE

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NBP2-81098PE**

Fc gamma RI/CD64 Antibody (H22) [PE]

| 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                       | H22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Preservative                | 0.05% Sodium Azide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Isotype                     | IgG Kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Conjugate                   | PE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Purity                      | Protein A purified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Buffer                      | PBS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Product Description         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Host                        | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gene ID                     | 2209                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Gene Symbol                 | FCGR1A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Species                     | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Specificity/Sensitivity     | This immunotoxin is specific for human Fc gamma RI/CD64, and specifically an epitope outside the Fc binding domain. The binding activity of the VH/VL antibody format was unaffected by fusion of the m22(scFv) coding regions to the truncated ETA coding sequences                                                                                                                                                                                                                                                                             |
| Immunogen                   | This recombinant antibody was prepared by cloning the single chain fragment (scFv) derived from the murine anti-human Fc gamma RI/CD64 mAb m22 into the bacterial expression vector pBM1.1, and fusing it to a deletion mutant of Pseudomonas exotoxin A.                                                                                                                                                                                                                                                                                        |
| Product Application Details |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Applications                | Flow Cytometry, Immunocytochemistry/Immunofluorescence, Competitive ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Recommended Dilutions       | Flow Cytometry, Immunocytochemistry/Immunofluorescence, Competitive ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Application Notes           | Optimal dilution of this antibody should be experimentally determined. This antibody binds human CD64 and can be bound to a toxin so that together it displays specific cytotoxicity, and thus can be used to selectively eliminate AML cells; FC analysis indicated that this immunotoxin drove 41% of primary leukemia cells from a patient with CD64-positive AML into early apoptosis (Tur, 2003). Similarly, in an in vivo mouse model, IHC analysis revealed efficient elimination of human CD64+ tumor cells in mouse organs (Tur, 2011). |





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### **Products Related to NBP2-81098PE**

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|             |                                 |
|-------------|---------------------------------|
| 210-TA-005  | TNF-alpha [Unconjugated]        |
| 1257-FC-050 | Fc gamma RI/CD64 [Unconjugated] |
| D6050       | IL-6 [HRP]                      |
| 285-IF-100  | IFN-gamma [Unconjugated]        |

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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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