

# Product Datasheet

## **Fc gamma RI/CD64 Antibody (H22) - Chimeric - Azide and BSA Free** **NBP2-81098-0.2mg**

Unit Size: 0.2 mg

Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.

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**NBP2-81098-0.2mg**

Fc gamma RI/CD64 Antibody (H22) - Chimeric - Azide and BSA Free

| Product Information |                                                                                |
|---------------------|--------------------------------------------------------------------------------|
| Unit Size           | 0.2 mg                                                                         |
| Concentration       | 1 mg/ml                                                                        |
| Storage             | Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C. |
| Clonality           | Monoclonal                                                                     |
| Clone               | H22                                                                            |
| Preservative        | 0.02% Proclin 300                                                              |
| Isotype             | IgG Kappa                                                                      |
| Purity              | Protein A purified                                                             |
| Buffer              | PBS                                                                            |

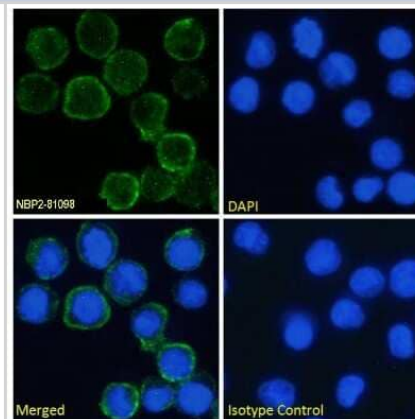
| Product Description     |                                                                                                                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description             | Novus Biologicals Rabbit Fc gamma RI/CD64 Antibody (H22) - Chimeric - Azide and BSA Free (NBP2-81098) is a recombinant monoclonal antibody validated for use in ELISA, Flow and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.          |
| 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                | ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Recommended Dilutions       | Flow Cytometry, ELISA Validated for Competitive ELISA, Immunocytochemistry/ Immunofluorescence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Application Notes           | This chimeric rabbit antibody was made using the variable domain sequences of the original IgG1 format, for improved compatibility with existing reagents, assays and techniques. 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). |



## Images

Immunocytochemistry/Immunofluorescence: Fc gamma RI/CD64 Antibody (H22) - Chimeric [NBP2-81098] - Immunofluorescence staining of fixed U937 cells with Fc gamma RI/CD64 Antibody (H22) [NBP2-81098]. Immunofluorescence analysis of paraformaldehyde fixed U937 cells on Shi-fix coverslips, permeabilized with 0.15% Triton and stained with the chimeric rabbit IgG version of H22 [NBP2-81098] at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (1 ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom NBP2-81098, DAPI, merged channels and an isotype control. The isotype control was stained with an anti-Fluorescein antibody followed by Alexa Fluor 488 secondary antibody.





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### **Products Related to NBP2-81098-0.2mg**

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|             |                                                     |
|-------------|-----------------------------------------------------|
| HAF008      | Goat anti-Rabbit IgG Secondary Antibody [HRP]       |
| NB7160      | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| 210-TA-005  | TNF-alpha [Unconjugated]                            |
| 1257-FC-050 | Fc gamma RI/CD64 [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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