

# Product Datasheet

## Beta Dystroglycan Antibody (P38G1) - Chimeric - BSA Free NBP3-43570

Unit Size: 0.2 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP3-43570**

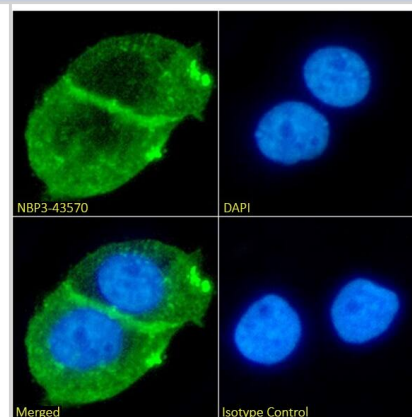
Beta Dystroglycan Antibody (P38G1) - Chimeric - BSA Free

| Product Information         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unit Size                   | 0.2 mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Concentration               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Storage                     | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                     |
| Clonality                   | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Clone                       | P38G1                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Preservative                | 0.02% Proclin 300                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Isotype                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Purity                      | Protein A purified                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Buffer                      | PBS                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Product Description         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Description                 | This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format for improved compatibility with existing reagents assays and techniques.                                                                                                                                                                                                                                                                                      |
| Host                        | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gene ID                     | 1605                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Gene Symbol                 | DAG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Species                     | Human, Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Specificity/Sensitivity     | This antibody recognizes human and mouse beta dystroglycan (beta-DAG). Beta-dystroglycan is a transmembrane protein that plays an important role in connecting the extracellular matrix to the cytoskeleton. It plays an important role in linking dystrophin to the laminin-binding alpha-dystroglycan. It acts as a cell adhesion receptor in both muscle and non-muscle tissues. It also functions in cell adhesion-mediated signaling and implicated in cell polarity. |
| Immunogen                   | The original antibody was generated by immunizing BALB/c mice with a mixture of transfected HEK 293 cells expressing human and mouse beta-DAG. (Uniprot# Q14118; Q62165)                                                                                                                                                                                                                                                                                                   |
| Product Application Details |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Applications                | ELISA, Flow Cytometry                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Recommended Dilutions       | Flow Cytometry, ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                      |



## Images

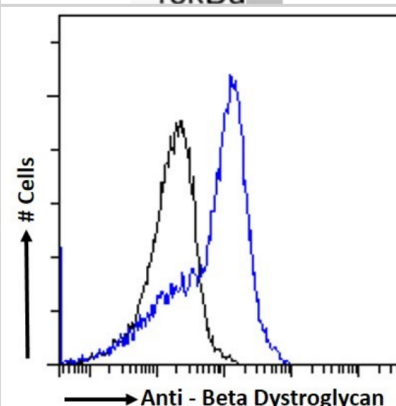
**Immunocytochemistry/ Immunofluorescence:** Beta Dystroglycan Antibody (P38G1) - Chimeric - BSA Free [NBP3-43570] - Immunofluorescence analysis of paraformaldehyde fixed A431 cells on coverslips stained with NBP3-43570 (1:100 dilution) for 1h followed by Alexa Fluor® 488 secondary antibody (1:1000 dilution), showing cell membrane/junction and cytoplasmic staining. The nuclear stain is DAPI (blue). Panels show, from left-right, top-bottom, NBP3-43570, DAPI, merged channels, and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor® 488 secondary antibody.



**Western Blot:** Beta Dystroglycan Antibody (P38G1) - Chimeric - BSA Free [NBP3-43570] - Human skeletal muscle tissue lysate (35µg protein in RIPA buffer) was resolved on an SDS-PAGE gel, and blots were probed with NBP3-43570 at 0.1µg/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1 hour was used, and protein was detected by chemiluminescence.

250kDa  
150kDa  
100kDa  
75kDa  
50kDa  
37kDa  
25kDa  
20kDa  
15kDa

**Flow Cytometry:** Beta Dystroglycan Antibody (P38G1) - Chimeric - BSA Free [NBP3-43570] - MCF7 cells were stained with the anti-unknown specificity antibody (isotype control, black line) or NBP3-43570 (blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor® 488 antibody at a dilution of 1:1000, and the cells were analyzed using a FACSCanto flow-cytometer.





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### **Products Related to NBP3-43570**

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|            |                                                     |
|------------|-----------------------------------------------------|
| HAF008     | Goat anti-Rabbit IgG Secondary Antibody [HRP]       |
| NB7160     | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control                          |
| 236-EG-200 | EGF [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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