

# Product Datasheet

## Ryanodine Receptor 1 Antibody (C3-33) - BSA Free NB120-2827

Unit Size: 100 ug

Store at -20C. Avoid freeze-thaw cycles.

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**NB120-2827****Ryanodine Receptor 1 Antibody (C3-33) - BSA Free**

| <b>Product Information</b>         |                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Unit Size</b>                   | 100 ug                                                                                                                                                                                                                                                                                                                                                 |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage</b>                     | Store at -20C. Avoid freeze-thaw cycles.                                                                                                                                                                                                                                                                                                               |
| <b>Clonality</b>                   | Monoclonal                                                                                                                                                                                                                                                                                                                                             |
| <b>Clone</b>                       | C3-33                                                                                                                                                                                                                                                                                                                                                  |
| <b>Preservative</b>                | 0.05% Sodium Azide                                                                                                                                                                                                                                                                                                                                     |
| <b>Isotype</b>                     | IgG1                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>                      | Protein G purified                                                                                                                                                                                                                                                                                                                                     |
| <b>Buffer</b>                      | PBS                                                                                                                                                                                                                                                                                                                                                    |
| <b>Product Description</b>         |                                                                                                                                                                                                                                                                                                                                                        |
| <b>Host</b>                        | Mouse                                                                                                                                                                                                                                                                                                                                                  |
| <b>Gene ID</b>                     | 6261                                                                                                                                                                                                                                                                                                                                                   |
| <b>Gene Symbol</b>                 | RYR1                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>                     | Human, Mouse, Rat, Porcine, Amphibian, Bovine, Canine, Chicken, Fish, Guinea Pig, Rabbit                                                                                                                                                                                                                                                               |
| <b>Reactivity Notes</b>            | Porcine reactivity reported in scientific literature (PMID: 12456488). Bovine (PMID: 15896674).                                                                                                                                                                                                                                                        |
| <b>Specificity/Sensitivity</b>     | Detects ryanodine receptor 2 (RyR 2) and weakly detects RyR 1.                                                                                                                                                                                                                                                                                         |
| <b>Immunogen</b>                   | Canine cardiac ryanodine receptor (RyR2)                                                                                                                                                                                                                                                                                                               |
| <b>Product Application Details</b> |                                                                                                                                                                                                                                                                                                                                                        |
| <b>Applications</b>                | Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation                                                                                                                                                                           |
| <b>Recommended Dilutions</b>       | Western Blot 1 ug/ml, Flow Cytometry 1:10 - 1:1000, Immunohistochemistry 1 ug/ml, Immunocytochemistry/ Immunofluorescence 1:50, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 1 ug/ml, Immunohistochemistry-Frozen 1 ug/ml                                                                                                           |
| <b>Application Notes</b>           | WB: Detects an approx. 565 kDa protein representing the ryanodine receptor. In non-mammalian vertebrates, a doublet is seen at 565 kDa representing the alpha and beta isoforms of the receptor. IHC: Staining of RyR in rat cardiac tissue results in intense staining of the myofiber, which is consistent with sarcoplasmic reticulum localization. |

**Publications**

Huang JP, Cheng ML, Wang CH et al. High-fructose and high-fat feeding correspondingly lead to the development of lysoPC-associated apoptotic cardiomyopathy and adrenergic signaling-related cardiac hypertrophy. Int. J. Cardiol. 2016-04-13 [PMID: 27107546] (WB, Rat)





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### **Products Related to NB120-2827**

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|                  |                                                         |
|------------------|---------------------------------------------------------|
| HAF007           | Goat anti-Mouse IgG Secondary Antibody [HRP]            |
| NB720-B          | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-97005-0.5mg | Mouse IgG1 Isotype Control (MG1)                        |
| NBP2-33785PEP    | Ryanodine Receptor 1 Recombinant Protein Antigen        |

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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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