

# Product Datasheet

## CACNA1S Antibody (1A) - BSA Free NB300-542-200uL

Unit Size: 200 uL

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

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**NB300-542-200uL**

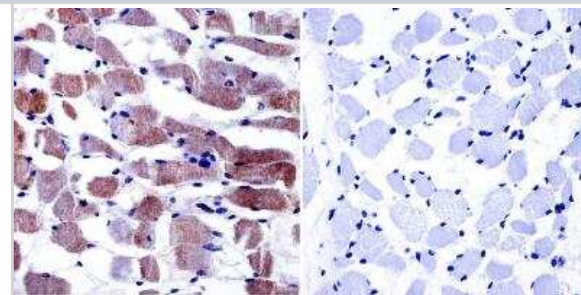
CACNA1S Antibody (1A) - BSA Free

| Product Information         |  |
|-----------------------------|--|
| Unit Size                   | 200 uL   |
| Concentration               | 1 mg/ml  |
| Storage                     | Store at -20C. Avoid freeze-thaw cycles.   |
| Clonality                   | Monoclonal   |
| Clone                       | 1A   |
| Preservative                | 0.05% Sodium Azide   |
| Isotype                     | IgG1   |
| Purity                      | Protein A purified   |
| Buffer                      | PBS (pH 7.4)   |
| Product Description         |  |
| Host                        | Mouse  |
| Gene ID                     | 779  |
| Gene Symbol                 | CACNA1S  |
| Species                     | Human, Mouse, Rat, Guinea Pig, Rabbit  |
| Reactivity Notes            | Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.  |
| Specificity/Sensitivity     | Detects 1,4-dihydropyridine (DHP) receptor alpha-1 subunit in skeletal muscle. The DHP Receptor alpha-1 protein is also known as CACNA1S or Cav1.1 alpha-1 subunit.  |
| Immunogen                   | Purified rabbit muscle T-tubule dihydropyridine receptor.  |
| Product Application Details |  |
| Applications                | Western Blot, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation  |
| Recommended Dilutions       | Western Blot 1:500, Flow Cytometry 1 ug, Immunohistochemistry 1:10 - 1:500, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 1:20, Immunohistochemistry-Frozen 1:200  |
| Application Notes           | WB: Detects an approx. 200 kDa protein representing the DHP receptor in rat skeletal muscle extracts. IHC: Staining of DHP receptor in rabbit skeletal muscle with this antibody results in double rows of discrete punctate staining representing pairs of triads on the opposing sides of the Z-lines. |

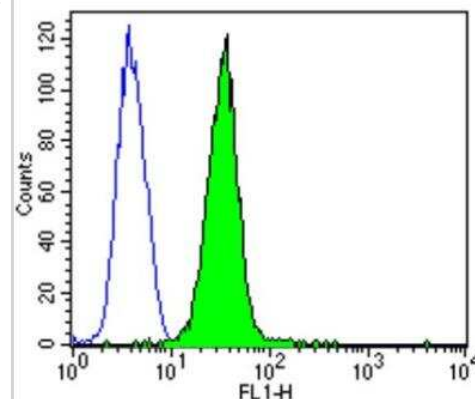


## Images

Immunohistochemistry-Paraffin: CACNA1S Antibody (1A) [NB300-542] - Immunohistochemistry was performed on normal biopsies of deparaffinized human skeletal muscle tissue.



Flow Cytometry: CACNA1S Antibody (1A) [NB300-542] - Flow cytometry analysis of Dihydropyridine Receptor alpha-1 in U251 cells (green) compared to an isotype control (blue). Cells were harvested, adjusted to a concentration of  $1-5 \times 10^6$  cells/ml, fixed with 2% paraformaldehyde and washed with PBS.



## Publications

Sarute N, Ross SR CACNA1S haploinsufficiency confers resistance to New World arenavirus infection Proc. Natl. Acad. Sci. U.S.A. 2020-08-11 [PMID: 32719120] (FLOW, WB, Mouse, Human)

Vihola A, Sirito M, Bachinski LL et al. Altered expression and splicing of Ca(2+) metabolism genes in myotonic dystrophies DM1 and DM2. Neuropathol Appl Neurobiol 2012-07-03 [PMID: 22758909] (WB, IF/IHC, Human)



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### **Products Related to NB300-542-200uL**

|                    |   |
|--------------------|---|
| 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)                        |
| H00000779-Q01-10ug | Recombinant Human CACNA1S GST (N-Term) Protein          |

### **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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