# Nebulette (G-16): sc-28122



The Power to Question

## **BACKGROUND**

Nebulin and nebulette are homologous thin-filament associated proteins expressed in skeletal and cardiac muscles, respectively. Nebulette, unlike nebulin, is confined to the Z-disc region of the sarcomere and does not span the whole thin filament length. Nebulette colocalizes with  $\alpha$ -actinin in the pre-, nascent, and mature myofibrils. A polymorphism in the actin-binding motif of nebulette is a genetic marker of susceptibility to nonfamilial idiopathic dilated cardiomyopathy (IDC), characterized by a thin-walled heart and systolic dysfunction.

# **REFERENCES**

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- Ogut, O., et al. 2003. Interactions between nebulin-like motifs and thin filament regulatory proteins. J. Biol. Chem. 278: 3089-3097.
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## CHROMOSOMAL LOCATION

Genetic locus: NEBL (human) mapping to 10p12.31.

#### SOURCE

Nebulette (G-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Nebulette of human origin.

## **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-28122 P, (100  $\mu g$  peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

#### **APPLICATIONS**

Nebulette (G-16) is recommended for detection of Nebulette of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Nebulette (G-16) is also recommended for detection of Nebulette in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Nebulette siRNA (h): sc-106293, Nebulette shRNA Plasmid (h): sc-106293-SH and Nebulette shRNA (h) Lentiviral Particles: sc-106293-V.

Molecular Weight (predicted) of human Nebulette: 116 kDa.

Molecular Weight (predicted) of mouse Nebulette: 52 kDa.

Molecular Weight (observed) of human Nebulette: 126 kDa. Molecular Weight (observed) of mouse Nebulette: 125 kDa.

## **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

# **STORAGE**

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

#### **PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **Nebulette (G-9): sc-393784** or **Nebulette (E-12): sc-393795**, our highly recommended monoclonal alternatives to Nebulette (G-16).

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