

# Calgizzarin (N-12): sc-49896

## BACKGROUND

Calgizzarin is a Ca<sup>2+</sup>-binding protein of the S100 family. The proteins comprising the S-100 protein family have two EF-hand structures per molecule of protein. Expression of these family members occurs primarily in neurons or retinal photoreceptor cells, and may also be involved in a wide variety of cellular functions including cell growth, cell-cell communication, energy metabolism and intracellular signal transduction. They have also been linked to various pathologies, including Alzheimer's disease, schizophrenia and cancer. Calgizzarin is highly expressed in lung tissue and is also expressed in kidney, liver, brain, heart and smooth muscle. It is an important androgen-responsive protein produced by Sertoli cells and might play a role in spermatogenesis regulation.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: S100A11 (human) mapping to 1q21.3; S100a11 (mouse) mapping to 3 F2.1.

## SOURCE

Calgizzarin (N-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Calgizzarin of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-49896 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Calgizzarin (N-12) is recommended for detection of Calgizzarin of mouse, rat and 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).

Calgizzarin (N-12) is also recommended for detection of Calgizzarin in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for Calgizzarin siRNA (h): sc-60314, Calgizzarin siRNA (m): sc-60315, Calgizzarin shRNA Plasmid (h): sc-60314-SH, Calgizzarin shRNA Plasmid (m): sc-60315-SH, Calgizzarin shRNA (h) Lentiviral Particles: sc-60314-V and Calgizzarin shRNA (m) Lentiviral Particles: sc-60315-V.

Molecular Weight of Calgizzarin: 13 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

## 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.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **Calgizzarin (B-5): sc-390250** or **Calgizzarin (84-S): sc-130401**, our highly recommended monoclonal alternatives to Calgizzarin (N-12).