Calgizzarin (B-5): sc-390250

BACKGROUND
Calgizzarin is a Ca²⁺-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

CHROMOSOMAL LOCATION
Genetic locus: S100A11 (human) mapping to 1q21.3.

SOURCE
Calgizzarin (B-5) is a mouse monoclonal antibody raised against amino acids 1-105 representing full length Calgizzarin of human origin.

PRODUCT
Each vial contains 200 µg IgG₂κ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Calgizzarin (B-5) is available conjugated to agarose (sc-390250 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390250 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390250 PE), fluorescein (sc-390250 FITC), Alexa Fluor® 488 (sc-390250 AF488), Alexa Fluor® 546 (sc-390250 AF546), Alexa Fluor® 594 (sc-390250 AF594) or Alexa Fluor® 647 (sc-390250 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-390250 AF680) or Alexa Fluor® 790 (sc-390250 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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

APPLICATIONS
Calgizzarin (B-5) is recommended for detection of Calgizzarin of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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

Molecular Weight of Calgizzarin: 13 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, PC-3 cell lysate: sc-2220 or SK-BR-3 cell lysate: sc-2218.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended:
2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA

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

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