**Calgranulin A (C-10): sc-48352**

**BACKGROUND**

The family of EF-hand type Ca\(^{2+}\)-binding proteins includes Calbindin (previously designated vitamin D-dependent Ca\(^{2+}\)-binding protein), S-100 \(\alpha\) and \(\beta\), Calgranulins A (also designated MRP8), B (also designated MRP14) and C (S-100 like proteins) and the parvalbumin family members, including parvalbumin \(\alpha\) and parvalbumin \(\beta\) (also designated oncomodulin). Calbindin, S-100 proteins and parvalbumin proteins are each expressed in neural tissues. In addition, S-100 \(\alpha\) and \(\beta\) are present in a variety of other tissues, and Calbindin is present in intestine and kidney. Parvalbumin \(\alpha\) is also found in fast-contracting/relaxing skeletal muscle fibers and parvalbumin \(\beta\) is found in many tumor tissues as well as in the organ of Corti. Calbindin, S-100 proteins and parvalbumins have all been detected in leydig cells and the testis. These proteins are thought to play a role in hormone production and spermatogenesis. Calgranulin is expressed in macrophages and epithelial cells.

**CHROMOSOMAL LOCATION**

Genetic locus: S100A8 (human) mapping to 1q21.3.

**SOURCE**

Calgranulin A (C-10) is a mouse monoclonal antibody raised against amino acids 1-83 representing full length Calgranulin A of human origin.

**PRODUCT**

Each vial contains 200 \(\mu\)g IgG\(_1\) kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Calgranulin A (C-10) is available conjugated to agarose (sc-48352 AC), 500 \(\mu\)g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-48352 HRP), 200 \(\mu\)g/ml, for WB, [HOP] and ELISA; to either phycoerythrin (sc-48352 PE), fluorescein (sc-48352 FITC), Alexa Fluor\(_{®}\) 488 (sc-48352 AF488), Alexa Fluor\(_{®}\) 546 (sc-48352 AF546), Alexa Fluor\(_{®}\) 594 (sc-48352 AF594) or Alexa Fluor\(_{®}\) 647 (sc-48352 AF647), 200 \(\mu\)g/ml, for WB (RGB), IF, [HOP] and FCM; and to either Alexa Fluor\(_{®}\) 680 (sc-48352 AF680) or Alexa Fluor\(_{®}\) 790 (sc-48352 AF790), 200 \(\mu\)g/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

Calgranulin A (C-10) is recommended for detection of Calgranulin A of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 \(\mu\)g per 100-500 \(\mu\)g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-inserted 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 Calgranulin A siRNA (h): sc-43342, Calgranulin A shRNA Plasmid (h): sc-43342-SH and Calgranulin A shRNA (h) Lentiviral Particles: sc-43342-V.

Molecular Weight of Calgranulin A: 11 kDa.

Positive Controls: HL-60 whole cell lysate: sc-2209, HL-60 + DMSO cell lysate: sc-24703 or A-431 whole cell lysate: sc-2201.

**DATA**

Calgranulin A (C-10): sc-48352. Western blot analysis of Calgranulin A expression in non-transfected (A) and human Calgranulin A transfected (B) CHO whole cell lysates.

**STORAGE**

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

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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