

A Reliable Research Partner in Life Science and Medicine

## S100A9 Monoclonal Antibody

catalog number: AN200040P

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### Description

Reactivity Human

**Immunogen** Recombinant Human S100A9 protein

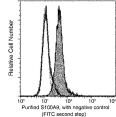
Host Mouse Isotype lgG2b Clone A884 **Purification** Protein A

Buffer 0.2 µm filtered solution in PBS

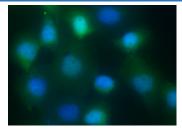
#### **Applications Recommended Dilution**

1:20-1:100 ICC/IF 1:25-1:100 **FCM** 

#### Data



Flow cytometric analysis of Human S100A9 on MCF-7 cells. The cells were stained with purified anti-Human S100A9 (Filled hisgram), then stained with a FITC-conjugated second step antibody. To demonstrate specificity of staining, the binding by S100A9 Monoclonal Antibody was blocked by Antibody (1:60) at 37°C 1 hour. Then cells were stained with preincubation of the purified antibody with 20ug recombinant human S100A9 (Cat: PKSH031239) for 1 hour (Black solid line hisgram).



Immunofluorescence analysis of Human S100A9 in Hela cells. Cells were fixed with 4% PFA, permeabilzed with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with mouse anti-Human S100A9 Monoclonal the Alexa Fluor® 488-conjugated Goat Anti-mouse IgG secondary antibody (green) and counterstained with DAPI for nuclear staining (blue). Positive staining was localized to cytoplasm and nucleus.

## **Preparation & Storage**

**Storage** This antibody can be stored at 2°C-8°C for one month without detectable loss of

> activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.

**Shipping** Ice bag

**Background** 

For Research Use Only

Toll-free: 1-888-852-8623 Fax: 1-832-243-6017 Tel: 1-832-243-6086 Web: www.elabscience.com Email: techsupport@elabscience.com Rev. V1.3

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### **Elabscience Bionovation Inc.**

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S100 protein is a family of low molecular weight protein found in vertebrates characterized by two EF-hand calciumbinding motifs. There are at least 21 different S100 proteins, and the name is derived from the fact that the protein is 100% soluble in ammonium sulfate at neutral pH. Most S100 proteins are disulfide-linked homodimer, and is normally present in cells derived from the neural crest, chondrocytes, macrophages, dendritic cells, etc. S100 proteins have been implicated in a variety of intracellular and extracellular functions. They are involved in regulation of protein phosphorylation, transcription factors, the dynamics of cytoskeleton constituents, enzyme activities, cell growth and differentiation, and the inflammatory response. Protein S100-A9, also known as S100 calciumbinding protein A9, S100A9, and CAGB, is a member of the S-100 family. S100A9 is expressed by macrophages in acutely inflammed tissues and in chronic inflammation. It is also expressed in epithelial cells constitutively or induced during dermatoses. S100A9 is a calcium-binding protein. It has anti-microbial activity towards bacteria and fungi. The anti-microbial and proapoptotic activity of S100A9 is inhibited by zinc ions. S100A9 plays a role in the development of endotoxic shock in response to bacterial lipopolysaccharide (LPS). It promotes tubulin polymerization when unphosphorylated. It also promotes phagocyte migration and infiltration of granulocytes at sites of wounding. S100A9 plays a role as a proinflammatory mediator in acute and chronic inflammation and up-regulates the release of IL8 and cell-surface expression of ICAM1.

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