



Anti-mouse S100A9 Antibody

ORDERING INFORMATION

Catalog Number: AF2065

Lot Number: JLL02

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: mouse S100A9

Immunogen: *E. coli*-derived rmS100A9

Ig Type: goat IgG

Applications: Western blot
Immunocytochemistry
Direct ELISA

Preparation

Produced in goats immunized with purified, *E. coli*-derived, recombinant mouse S100A9 (rmS100A9). Mouse S100A9 specific IgG was purified by mouse S100A9 affinity chromatography. S100A9, also known as calgranulin B, migration inhibitory factor-related protein 14 (MRP14), belongs to the S100 family of calcium binding proteins of the EF-hand type. It is highly expressed in myeloid cells and other cell types including keratinocytes, epithelial cells and endothelial cells. S100A9 is a cytosolic protein that can also be released into the extracellular milieu. It is associated with various inflammatory diseases.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a **manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for its ability to recognize mouse S100A9 in the applications listed below. In direct ELISAs and Western blots, this antibody shows less than 2% cross-reactivity with rmS100A10 and rhS100B.

Applications

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse S100A9. The detection limit for rmS100A9 is approximately 5 ng/lane under non-reducing and reducing conditions.

Immunocytochemistry - This antibody has been used at a concentration of 10 µg/mL to detect mouse S100A9 in XB-2 cells. Cells were fixed with PBS containing 4% paraformaldehyde for 20 minutes at room temperature and blocked with PBS containing 10% normal donkey serum, 0.1% Triton® X-100, 1% BSA for 45 minutes at room temperature. After blocking, cells were incubated with diluted primary antibody overnight at 4° C followed by Rhodamine Red™ coupled anti-goat IgG at room temperature in the dark for one hour. Between each step, cells were washed with PBS containing 0.1% BSA.

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect mouse S100A9. The detection limit for rmS100A9 is approximately 1.25 ng/well.

Optimal dilutions should be determined by each laboratory for each application.

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4/22/08