



ORDERING INFORMATION

Catalog Number: BAF2377

Lot Number: UHA01

Size: 50 µg

Formulation: 0.2 µm filtered solution in PBS
with BSA

Storage: -20° C

Reconstitution: sterile 0.1% BSA in TBS

Specificity: mouse S100A10

Immunogen: *E. coli*-derived rmS100A10

Ig Type: goat IgG

Applications: Western blot
Immunohistochemistry

Biotinylated Anti-mouse S100A10 Antibody

Preparation

Produced in goats immunized with purified, *E. coli*-derived, recombinant mouse S100A10 (rmS100A10). Mouse S100A10 specific IgG was purified by mouse S100A10 affinity chromatography and then biotinylated. S100A10 is a member of the S100 family of EF hand calcium-binding proteins. It is primarily found in mast cells as well as heterotetrameric complexes (two annexin A2 subunits and two S100 A10 subunits) that are present intracellularly at the plasma membrane or on the extracellular cell surface. Extracellular S100A10 is a key plasminogen receptor that plays an important role in cellular plasmin production and cellular invasiveness.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

Reconstitution

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/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 use as a detection antibody in the applications listed below.

Applications

Western Blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse S100A10. The detection limit for rmS100A10 is approximately 1 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows approximately 5% cross-reactivity with rhS100A10 and less than 1% cross-reactivity with rhS100B and rmS100A9.

Immunocytochemistry - This antibody will detect S100A10 in cells and tissues. The working dilution is 2 - 15 µg/mL. For chromogenic detection of labeling, use R&D Systems' Cell and Tissue Staining Kits (CTS Series).

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