

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse S100A9 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mouse (rm) S100A4, rmS100A8, rmS100A10, rhS100B, or rhS100P is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 372510
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse S100A9 Met1-Lys113 Accession # P31725
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below
Simple Western	10 µg/mL	See Below

DATA

Western Blot

Detection of Mouse S100A9 by Western Blot. Western blot shows lysates of mouse leukocytes. PVDF membrane was probed with 2 µg/mL of Rat Anti-Mouse S100A9 Monoclonal Antibody (Catalog # MAB2065) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for S100A9 at approximately 14 kDa (as indicated). This experiment was conducted under reducing (R) and non-reducing (NR) conditions and using Immunoblot Buffer Group 1.

Simple Western

Detection of Mouse S100A9 by Simple Western™. Simple Western lane view shows lysates of mouse spleen tissue, loaded at 0.2 mg/mL. A specific band was detected for S100A9 at approximately 19 kDa (as indicated) using 10 µg/mL of Rat Anti-Mouse S100A9 Monoclonal Antibody (Catalog # MAB2065) followed by 1:50 dilution of HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

S100A9, also known as calgranulin B or 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.