Mouse S100A10 Antibody

Monoclonal Rat IgG_{2A} Clone # 344015

Catalog Number: MAB2377

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse S100A10 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mouse (rm) S100A4, rmS100A8, rmS100A9, recombinant human (rh) S100B, or rhS100P is observed.
Source	Monoclonal Rat IgG_{2A} Clone # 344015
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant mouse S100A10 Met1-Lys97 Accession # P08207
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 either lyophilized or as a 0.2 μm filtered solution in PBS.

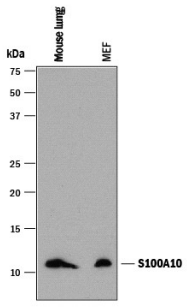
APPLICATIONS

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	1 µg/mL	See Below
Flow Cytometry	2.5 µg/10^6 cells	TK-1 mouse T cell lymphoma cell line
Immunocytochemistry	8-25 µg/mL	Immersion fixed TK-1 mouse lymphoma cell line
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

Western Blot



Detection of Mouse S100A10 by Western Blot. Western blot shows lysates of mouse lung tissue and MEF mouse embryonic feeder cells. PVDF membrane was probed with 1 µg/mL of Rat Anti-Mouse S100A10 Monoclonal Antibody (Catalog # MAB2377) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for S100A10 at approximately 11 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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.** ● 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

S100A10, also called p11, is a 97 amino acid member of the S100 family of EF hand proteins, but does not bind calcium. It is primarily found, either within or on the surface of mast cells, as a complex of two annexin A2 subunits with two S100A10 subunits. Extracellular S100A10 is a plasminogen receptor important for plasmin production and cellular invasiveness. Intracellular S100A10 may target ligands to the endoplasmic reticulum. Mouse S100A10 shows 92% amino acid identity with human S100A10.

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