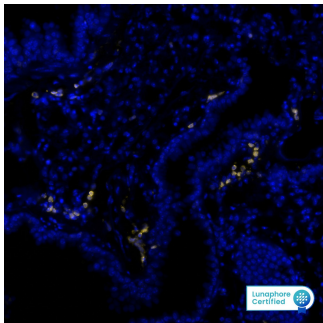
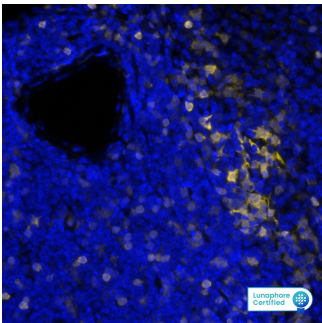
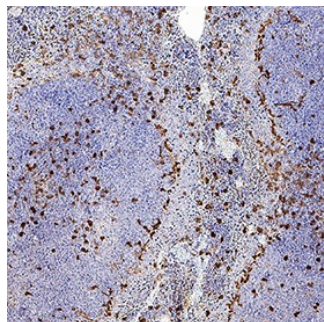


DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects recombinant mouse S100A4 protein in Direct ELISA.
Source	Recombinant Monoclonal Rabbit IgG Clone # 3352C
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived mouse S100A4 Leu20-Pro219 Accession # P07091
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

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	0.05 µg/mL	NIH-3T3 mouse embryonic fibroblast cell line
Immunocytochemistry	0.3-3 µg/mL	S100A4 was detected in Immersion fixed RAW264.7 cells
Multiplex Immunofluorescence	0.1 µg/mL	Perfusion fixed paraffin-embedded sections of mouse Spleen and Lung
Immunohistochemistry	0.05-10 µg/mL	Perfusion fixed paraffin-embedded sections of mouse spleen and thymus
Simple Western	1-5 µg/mL	C2C12 mouse myoblast cell line

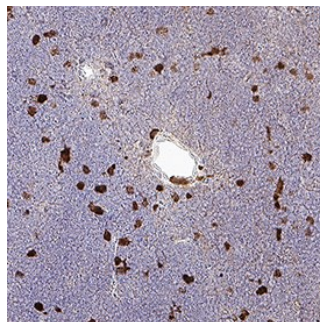
DATA	
Multiplex Immunofluorescence  Detection of S100A4 in Mouse Lung via seqIF™ staining on COMET™ S100A4 was detected in perfusion fixed paraffin-embedded sections of mouse Lung using Rabbit Anti-Mouse S100A4, Monoclonal Antibody (Catalog # MAB11727) at 0.1µg/mL at 37° Celsius for 4 minutes. Before incubation with the primary antibody, tissue underwent an all-in-one dewaxing and antigen retrieval preprocessing using PreTreatment Module (PT Module) and Dewax and HIER Buffer H (pH 9; EpreDia Catalog # TA-999-DHBH). Tissue was stained using the Alexa Fluor™ Plus 647 Goat anti-Rabbit IgG Secondary Antibody at 1:200 at 37 ° Celsius for 2 minutes. (Yellow; Lunaphore Catalog # DR647RB) and counterstained with DAPI (blue; Lunaphore Catalog # DR100). Specific staining was localized to the nucleus and cytoplasm. Protocol available in COMET™ Panel Builder.	Multiplex Immunofluorescence  Detection of S100A4 in Mouse Spleen via seqIF™ staining on COMET™ S100A4 was detected in immersion fixed paraffin-embedded sections of mouse Spleen using Rabbit Anti-Mouse S100A4, Monoclonal Antibody (Catalog # MAB11727) at 0.1µg/mL at 37° Celsius for 4 minutes. Before incubation with the primary antibody, tissue underwent an all-in-one dewaxing and antigen retrieval preprocessing using PreTreatment Module (PT Module) and Dewax and HIER Buffer H (pH 9; EpreDia Catalog # TA-999-DHBH). Tissue was stained using the Alexa Fluor™ Plus 647 Goat anti-Rabbit IgG Secondary Antibody at 1:200 at 37 ° Celsius for 2 minutes. (Yellow; Lunaphore Catalog # DR647RB) and counterstained with DAPI (blue; Lunaphore Catalog # DR100). Specific staining was localized to the nucleus and cytoplasm. Protocol available in COMET™ Panel Builder.

Immunohistochemistry



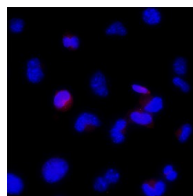
Detection of S100A4 in Mouse Spleen. S100A4 was detected in perfusion fixed paraffin-embedded sections of mouse spleen using Rabbit Anti-Mouse S100A4 Monoclonal Antibody (Catalog # MAB11727) at 0.05 µg/ml for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC003) or the HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to the nucleus and cytoplasm. View our protocol for [IHC Staining with VisUCyte HRP Polymer Detection Reagents](#).

Immunohistochemistry

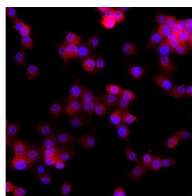


Detection of S100A4 in Mouse Thymus. S100A4 was detected in perfusion fixed paraffin-embedded sections of mouse thymus using Rabbit Anti-Mouse S100A4 Monoclonal Antibody (Catalog # MAB11727) at 0.05 µg/ml for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC003) or the HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to the nucleus and cytoplasm. View our protocol for [IHC Staining with VisUCyte HRP Polymer Detection Reagents](#).

Immunocytochemistry



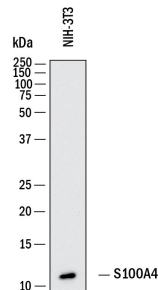
Neuro2A cells (low level)



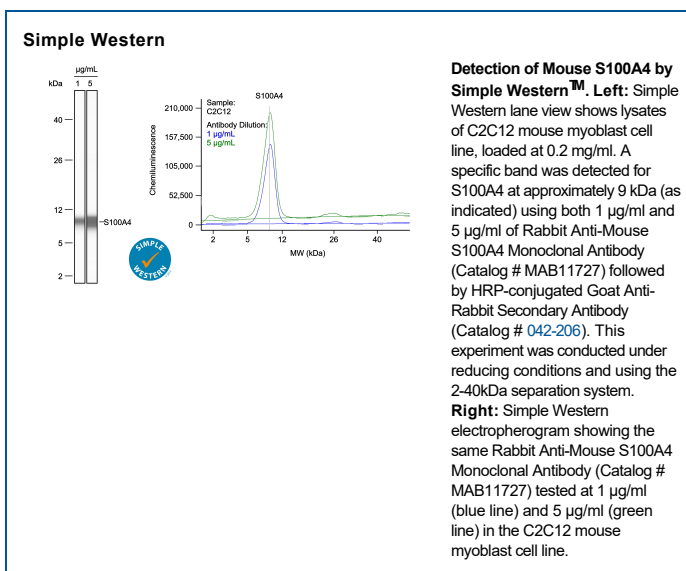
RAW264.7 cells (high level)

Detection of S100A4 in RAW264.7 cells S100A4 was detected in Immersion fixed RAW264.7 cells (Positive) and low in Neuro2A cells (Low expression) using Rabbit Anti-Mouse S100A4 Monoclonal Antibody (Catalog # MAB11727) at 3 µg/ml for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to the nucleus and cytoplasm of RAW264.7 cells. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

Simple Western



Detection of Mouse S100A4 by Western Blot. Western Blot shows lysates of NIH-3T3 mouse embryonic fibroblast cell line. PVDF membrane was probed with 0.05 µg/ml of Rabbit Anti-Mouse S100A4 Monoclonal Antibody (Catalog # MAB11727) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for S100A4 at approximately 11 kDa (as indicated). This experiment was conducted under reducing conditions and using [Western Blot Buffer Group 1](#).



PREPARATION AND STORAGE

Reconstitution	Reconstitute lyophilized material at 0.2 mg/ml in sterile PBS. For liquid material, refer to CoA for concentration.
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
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.