

## **Human S100A2 Antibody**

Monoclonal Mouse IgG<sub>2B</sub> Clone # 674035 Catalog Number: MAB4870

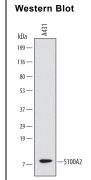
DESCRIPTION					
Species Reactivity	Human				
Specificity	Detects human S100A2 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) S100A1 A6, A7, A8, A9, A10, A11, A13, A16, rhS100B, rhS100P, recombinant mouse S100A1, A4, A6, A8, A9, A10, A13, or A16 is observed.				
Source	Monoclonal Mouse IgG <sub>2B</sub> Clone # 674035				
Purification	Protein A or G purified from hybridoma culture supernatant				
Immunogen	E. coli-derived recombinant human S100A2 Met1-Pro97 Accession # P29034				
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	2 μg/mL	See Below

## DATA



Detection of Human S100A2 by Western Blot. Western blot shows lysates of A431 human epithelial carcinoma cell line. PVDF Membrane was probed with 2 µg/mL of Human S100A2 Monoclonal Antibody (Catalog # MAB4870) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for S100A2 at approximately 10 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PRFP/	ARATION	AND	STOR	AGE
		AIND	3101	WO F

**Reconstitution** Sterile PBS to a final concentration of 0.5 mg/mL.

**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

- 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

S100A2 (also S100L and CaN19) is a 10 kDa member of the S100 family, EF-hand superfamily of Ca-binding proteins. It is expressed by multiple cell types, including keratinocytes, chondrocytes, and bronchial epithelium. S100A2 regulates both Ca and Zn (in human) within cells, and increases p53 activity. It forms both noncovalent and covalent homodimers, and a homotetramer under certain conditions. Human S100A2 is 98 amino acids (aa) in length. It contains two EF-hand motifs (aa 13-48 and 51-86) plus a calcium (aa 64-75) and zinc (aa 17-22) binding site. There is one potential alternative splice form that shows a 40 aa insertion after Gly48. Full-length human S100A2 shares 89% and 85% aa identity with bovine and canine S100A2, respectively

Rev. 2/7/2018 Page 1 of 1

