

Mouse S100A2/S100 Calcium Binding Protein A2 Monoclonal Antibody | anti-S100A2 antibody

S100A2/S100 Calcium Binding Protein A2

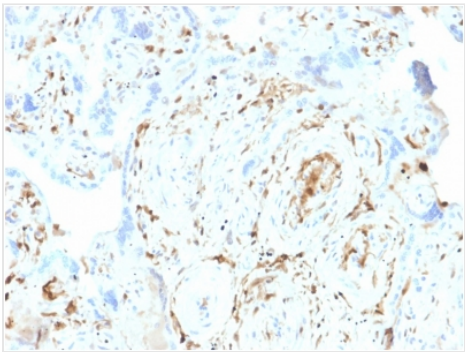
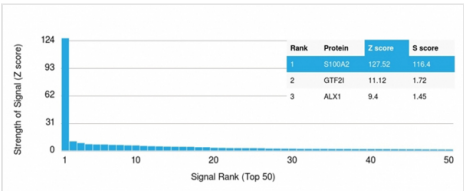
CATALOG # AAA214811	HOST Mouse	REACTIVITY Human. Others not tested.	APPLICATIONS Immunohistochemistry, Western Blot
-------------------------------	----------------------	--	---

PRODUCT SYNONYMS

S100A2/S100 Calcium Binding Protein A2; Monoclonal Antibody; CAN19; MGC111539; S100L; anti-S100A2 antibody

PRODUCT SPECIFICATIONS

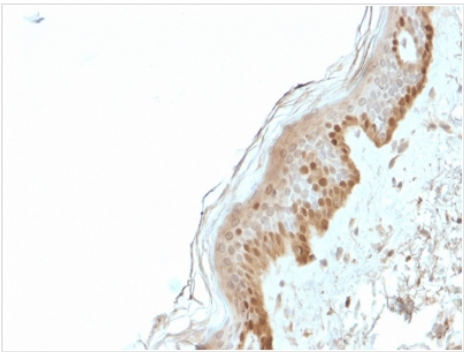
Host	Mouse
Reactivity	Human. Others not tested.
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	CPTC-S100A2-2
Specificity	S100A2 belongs to the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100A2 may function as a modulator against excess calcium accumulation in normal human mammary epithelial cells and also have a role in suppressing tumor cell growth. This protein may have a tumor suppressor function. Chromosomal rearrangements and altered expression of this gene have been implicated in breast cancer. Cytoplasmic overexpression may also be of prognostic significance when observed in oral cancer patients, and the S100A2 has also been identified as significantly down-regulated in gastric cancer.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	98
Applicable Applications for anti-S100A2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant human full length protein
Positive Control	HACAT, BxPC3, and A431 cell lysates; Skin and squamous cell cervical carcinoma.
Cellular Localization	Nucleus and cytoplasm.
Chromosome Location	1q21.3
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Placenta stained with S100A2 Mouse Monoclonal Antibody (CPTC-S100A2-2).

Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using S100A2 Mouse Monoclonal Antibody (CPTC-S100A2-2). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Skin stained with S100A2 Mouse Monoclonal Antibody (CPTC-S100A2-2).

ADDITIONAL INFORMATION

References	Wessels D, et al. PLoS ONE 12(3): e017340
------------	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	5174661
NCBI GeneID	6273
NCBI Accession #	NP_005969.1
NCBI GenBank Nucleotide #	NM_005978.3
UniProt Accession #	P29034; O00266; Q3KRB9; Q5RHS8; Q9BU83
Molecular Weight	11.12kDa
NCBI Official Full Name	protein S100-A2
NCBI Official Synonym Full Names	S100 calcium binding protein A2
NCBI Official Symbol	S100A2
NCBI Official Synonym Symbols	CAN19; S100L
NCBI Protein Information	protein S100-A2

UniProt Protein Name	Protein S100-A2
UniProt Gene Name	S100A2
UniProt Synonym Gene Names	S100L

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/s100a2-s100-calcium-binding-protein-a2-antibody-clone-cptc-s100a2-2-immunohistochemistry-western-blot-elisa/214811>