

Mouse S100A4 Monoclonal Antibody | anti-S100A4 antibody

S100A4 (Marker of Tumor Metastasis)

CATALOG # AAA214812	HOST Mouse	REACTIVITY Human. Others not tested.	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

S100A4; Monoclonal Antibody; S100A4 (Marker of Tumor Metastasis); S100 calcium-binding protein A4; Calvasculin; CAPL; Fibroblast specific protein 1 (FSP1); Leukemia multidrug resistance associated protein; Malignant transformation suppression 1 (MTS1); Metastasin; Placental calcium-binding protein; anti-S100A4 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not tested.
Clonality	Monoclonal
Isotype	IgG2c
Clone Number	CPTC-S100A4-3
Specificity	S100A4 belongs to the S100 super-family of proteins containing 2 EF-hand calcium-binding domains. S100A4 has been implicated in the progression and prognosis of several forms of human cancer, e.g. breast, colorectal, gastric, pancreatic and bladder cancer, SCLC and oesophageal squamous cell carcinoma, among others. Poor prognosis associated with high S100A4 expression is accompanied by clear signs of disease progression, e.g. high histological and clinical grades and involvement of lymph nodes. Also indicative of poor prognosis is high S100A4 expression coupled with reduced E-cadherin expression in pancreatic, oral squamous cell carcinoma and in melanoma. S100A4 expression is inversely related with expression of metastasis suppressor nm23 and with prognosis of breast cancer. S100A4 is overexpressed in highly metastatic cancers, which makes it useful as a marker of tumor progression.
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	101
Applicable Applications for anti-S100A4 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant human S100A4 full length protein
Positive Control	HeLa, A549 or A375 Cells. Placenta, small intestine.
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.

IMAGES



Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using S100A4 Mouse Monoclonal Antibody (CPTC-S100A4-3). 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 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 Lymph Node stained with S100A4 Mouse Monoclonal Antibody (CPTC-S100A4-3).

ADDITIONAL INFORMATION

References	Orre, L M, et al. Nature News, Nature Publishing Group, 10 June 201
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4506765
NCBI GeneID	6275
NCBI Accession #	NP_002952.1
NCBI GenBank Nucleotide #	NM_002961.2
UniProt Accession #	P26447; Q6ICP8; A8K7R8; D3DV46
Molecular Weight	12kDa
NCBI Official Full Name	protein S100-A4
NCBI Official Synonym Full Names	S100 calcium binding protein A4
NCBI Official Symbol	S100A4
NCBI Official Synonym Symbols	42A; 18A2; CAPL; FSP1; MTS1; P9KA; PEL98
NCBI Protein Information	protein S100-A4
UniProt Protein Name	Protein S100-A4
UniProt Gene Name	S100A4
UniProt Synonym Gene Names	CAPL; MTS1

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/s100a4-antibody-clone-cptc-s100a4-3-immunohistochemistry-western-blot-elisa/214812>