

Mouse anti-Human, Mouse S100A4 Monoclonal Antibody | anti-S100A4 antibody

S100A4 (Marker of Tumor Metastasis)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA23892	Mouse	Human, Mouse	Flow Cytometry, Functional Assay, Immunofluorescence, Western Blot, Immunohistochemistry

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, Mouse
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	S100A4/1482
Specificity	S100A4 belongs to the S100 super-family of proteins containing 2 EF-hand calcium-binding domains. S100 genes include at least 25 members, including S100A1-S100A18, trichohyalin, filaggrin, repetin, S100P, and S100Z. S100A4 exerts its function via direct interaction with a number of proteins including P53, P63, non-muscle myosin IIA, alpha6beta4 integrin, and liprin b1. S100A4 is overexpressed in highly metastatic cancers, which makes it useful as a marker of tumor progression.
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	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), WB (Western Blot), IHC (Immunohistochemistry)
Application Notes	FC: (1-2ug/million cells) IF: (1-2ug/ml) WB: (1-2ug/ml) IHC-(Formalin-fixed): (1-2ug/ml for 30 minutes at RT), (Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes) Optimal dilution for a specific application should be determined.
Immunogen	Recombinant human S100A4 protein protein (aa1-200)(exact sequence is proprietary)
Cellular Localization	Cytoplasmic, Nuclear, Secreted
Positive Control	HeLa, A549 or A375 Cells. Placenta
Preparation and Storage	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



IF (Immunofluorescence)

Confocal immunofluorescence image of HeLa Cells using S100A4 Mouse Monoclonal Antibody (S100A4/1482) followed by goat anti-mouse IgG-CF488 (green). Reddot is used to label the nuclei Red.



FCM (Flow Cytometry)

Flow Cytometric Analysis of A549 cells using S100A4 Mouse Monoclonal Antibody (S100A4/1482) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



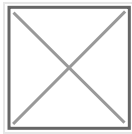
FCM (Flow Cytometry)

Flow Cytometric Analysis of T98G cells using S100A4 Mouse Monoclonal Antibody (S100A4/1482) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



WB (Western Blot)

Western Blot Analysis of HeLa cell lysate using S100A4 Mouse Monoclonal Antibody (S100A4/1482).



SDS-PAGE

SDS-PAGE Analysis Purified S100A4 Mouse Monoclonal Antibody (S100A4/1482). Confirmation of Integrity and Purity of Antibody.



WB (Western Blot)

Western Blot of HeLa, A549 and A375 Cell Lysate using S100A4 Monoclonal Antibody (S100A4/1482).

ADDITIONAL INFORMATION

References	Ismail NI, Kaur G, Hashim H, Hassan MS. S100A4 overexpression proves to be independent marker for breast cancer progression. Cancer Cell Int. 2008 Sep 5; 8:12.
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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	10-12kDa
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.

