

## S100A4 / Metastasin / Calvasculin (Marker of Tumor Metastasis) Antibody

Mouse Monoclonal Antibody [Clone CPTC-S100A4-3]

Catalog No	Format	Size
6275-MSM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
6275-MSM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
6275-MSM3-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

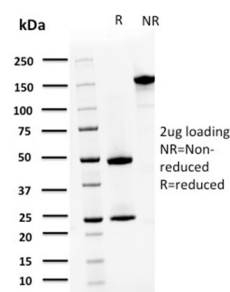
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Western Blot (WB)	2-4ug/ml	

### Product Details

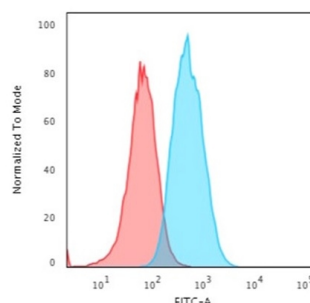
Clone	CPTC-S100A4-3
Gene Name	S100A4
Immunogen	Recombinant human S100A4 full length protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2c / Kappa
Mol. Weight of Antigen	12kDa
Cellular Localization	Cytoplasm, Nucleus, Secreted
Species Reactivity	Human
Positive Control	A549 or A375 cells. Placenta, HeLa, small intestine., T98G

*\*Optimal dilution for a specific application should be determined.*

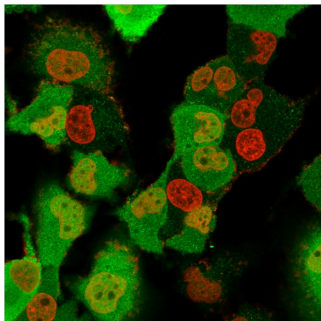
### Product Images for S100A4 / Metastasin / Calvasculin (Marker of Tumor Metastasis) Antibody



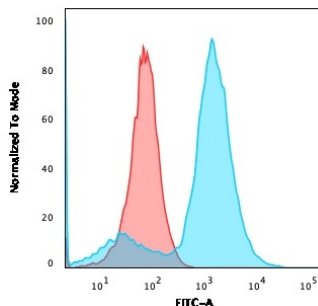
SDS-PAGE Analysis Purified S100A4 Mouse Monoclonal Antibody (CPTC-S100A4-3). Confirmation of Purity and Integrity of Antibody



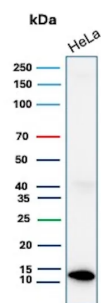
Flow Cytometric Analysis of T98G cells using S100A4 Mouse Monoclonal Antibody (CPTC-S100A4-3) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



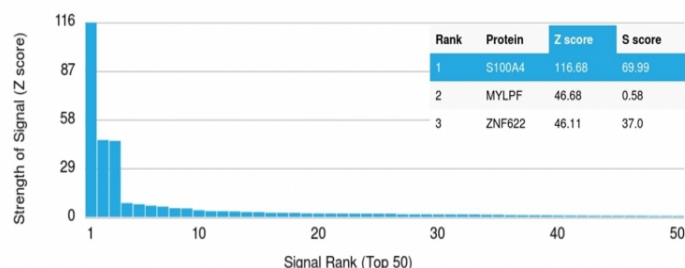
Immunofluorescence Analysis of T98G cells labeling S100A4 with S100A4 Mouse Monoclonal Antibody (CPTC-S100A4-3) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red).



Flow Cytometric Analysis of A549 cells using S100A4 Mouse Monoclonal Antibody (CPTC-S100A4-3) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



Western Blot Analysis of HeLa lysate using S100A4 Mouse Monoclonal Antibody (CPTC-S100A4-3).



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 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.

## Specificity & Comments

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.

## Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

## Supplied As

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.

## Storage and Stability

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.

## Research Areas

Dendritic Cell Marker