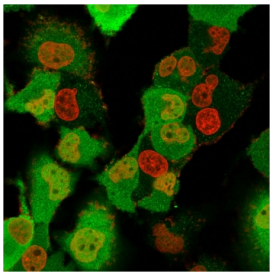
S100A4 Antibody / FSP1 [clone CPTC-S100A4-3] (V7351)

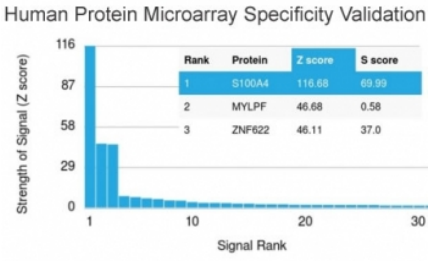
Catalog No.	Formulation	Size
V7351-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7351-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7351SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

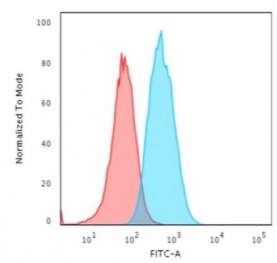
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2c, kappa
Clone Name	CPTC-S100A4-3
Purity	Protein G affinity chromatography
UniProt	P26447
Localization	Cytoplasmic, nuclear
Applications	Flow cytometry: 1-2ug/10^6 cells Immunofluorescence: 1-2ug/ml Western blot: 2-4ug/ml
Limitations	This S100A4 antibody is available for research use only.



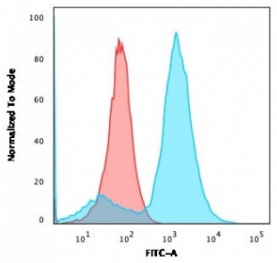
IF/ICC testing of fixed and permeabilized human T98G cells with FSP1 antibody (clone CPTC-S100A4-3, green) and Reddot nuclear stain (red).



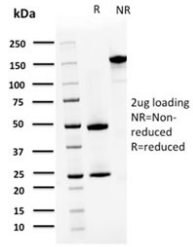
Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using S100A4 antibody. These results demonstrate the foremost specificity of the CPTC-S100A4-3 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



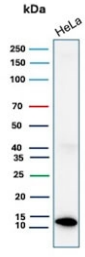
Flow cytometry testing of human T98G cells with S100A4 antibody (clone CPTC-S100A4-3); Red=isotype control, Blue= S100A4 antibody.



Flow cytometry testing of human A549 cells with S100A4 antibody (clone CPTC-S100A4-3); Red=isotype control, Blue= S100A4 antibody.



SDS-PAGE analysis of purified, BSA-free S100A4 antibody (clone CPTC-S100A4-3) as confirmation of integrity and purity.



Western blot testing of human HeLa cell lysate with S100A4 antibody. Predicted molecular weight ~12 kDa.

Description

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, 64 integrin, and liprin b1. S100A4 is overexpressed in highly metastatic cancers, which makes it useful as a marker of tumor progression.

Application Notes

The optimal dilution of the S100A4 antibody for each application should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Recombinant human protein was used as the immunogen for this S100A4 antibody.

Storage

Store the S100A4 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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