Product Datasheet

S100A4 Antibody / FSP1 (orb606845)

Catalog Number	orb606845
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.
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	FACS, IF, WB
Immunogen	Recombinant human protein was used as the immunogen for this S100A4 antibody.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
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.
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide
Isotype	Mouse IgG2c, kappa
Clonality	Monoclonal

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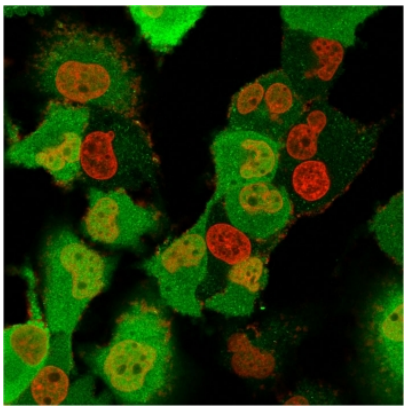
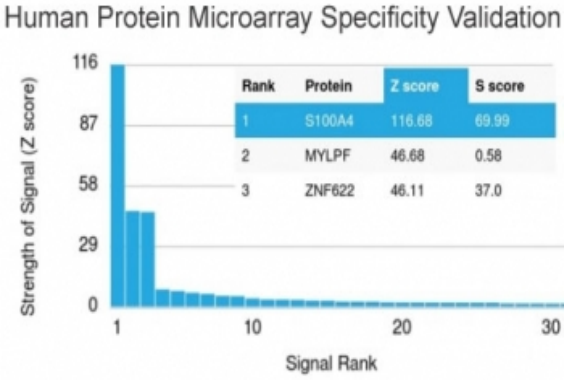
Clone Number	CPTC-S100A4-3
Antibody Type	Primary Antibody
Uniprot ID	**P26447**
Hazard Information	This S100A4 antibody is available for research use only.
Dilution Range	Flow cytometry: 1-2ug/million cells,Immunofluorescence: 1-2ug/ml,Western blot: 1-2ug/ml
Expiration Date	12 months from date of receipt.



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 19000 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.

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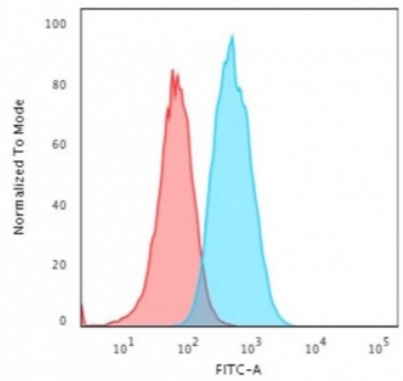
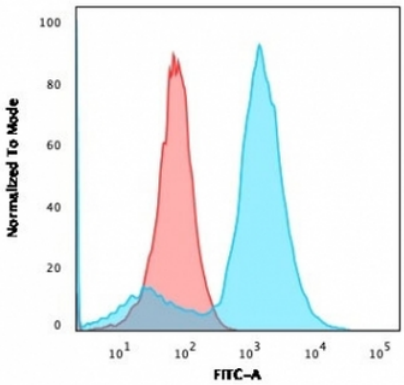
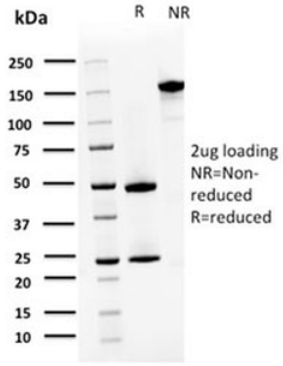


Flow cytometry testing of human T98G cells with S100A4 antibody (clone CPTC-S100A4-3); Red = isotype control, Blue = S100A4 antibody.



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.

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