

Product Datasheet

S100A4 Antibody / FSP1 (orb606845)

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| Catalog Number | orb606845 |
| Category | Antibodies |
| 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. |
| Clonality | Monoclonal |
| Species/Host | Mouse |
| Isotype | Mouse IgG2c, kappa |
| Conjugation | Unconjugated |
| Reactivity | Human |
| Buffer/Preservatives | 0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin and 0.05% sodium azide |
| Purification | Protein G affinity chromatography |
| Immunogen | Recombinant human protein was used as the immunogen for this S100A4 antibody. |
| UniProt ID | P26447 |
| Tested applications | FACS, IF, WB |
| Dilution range | Flow cytometry: 1-2ug/10 ⁶ cells, Immunofluorescence: 1-2ug/ml, Western blot: 2-4ug/ml |

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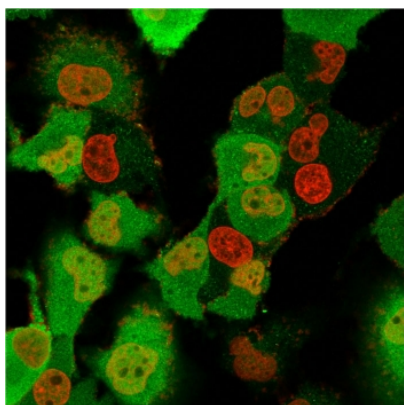
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|--------------------------|---|
| Application notes | The optimal dilution of the S100A4 antibody for each application should be determined by the researcher. 1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min. |
| Antibody Type | Primary Antibody |
| Clone Number | CPTC-S100A4-3 |
| 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 |
| 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).

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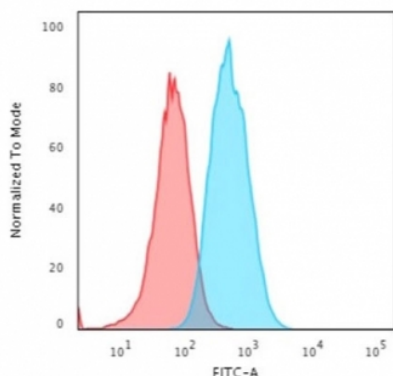
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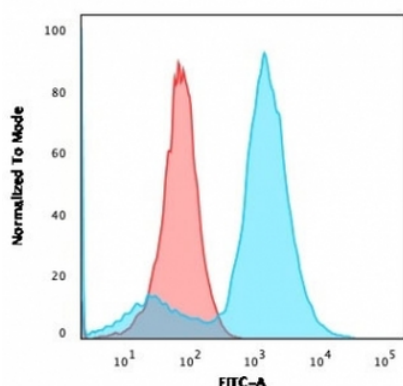
Human Protein Microarray Specificity Validation



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.



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.

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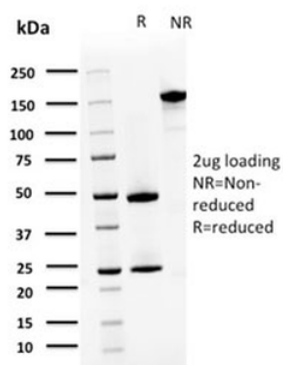
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SDS-PAGE analysis of purified, BSA-free S100A4 antibody (clone CPTC-S100A4-3) as confirmation of integrity and purity.

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