

## Product Datasheet

### S100A4 Antibody / FSP1 (orb2640283)

<b>Catalog Number</b>	orb2640283
<b>Category</b>	Antibodies
<b>Description</b>	S100A4/FSP1 (Fibroblast specific protein 1) 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, a6b4 integrin, and liprin b1. S100A4 is overexpressed in highly metastatic cancers, which makes it useful as a marker of tumor progression.
<b>Clonality</b>	Monoclonal
<b>Species/Host</b>	Mouse
<b>Isotype</b>	Mouse IgG1, kappa
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	Human, Mouse
<b>Buffer/Preservatives</b>	1 mg/ml in 1X PBS; rAlbumin free, sodium azide free
<b>Purification</b>	Protein G affinity chromatography
<b>Immunogen</b>	Human recombinant S100A4 protein was used as the immunogen for this S100A4 antibody.
<b>UniProt ID</b>	<b>P26447</b>
<b>Tested applications</b>	FACS, IF, IHC-P, WB
<b>Dilution range</b>	Flow cytometry: 1-2ug/million cells, Immunofluorescence: 1-2ug/ml, Western blot: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT

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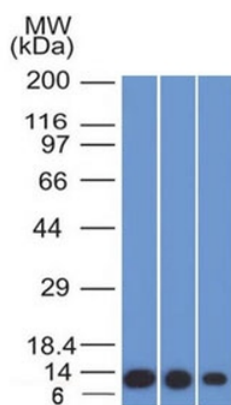
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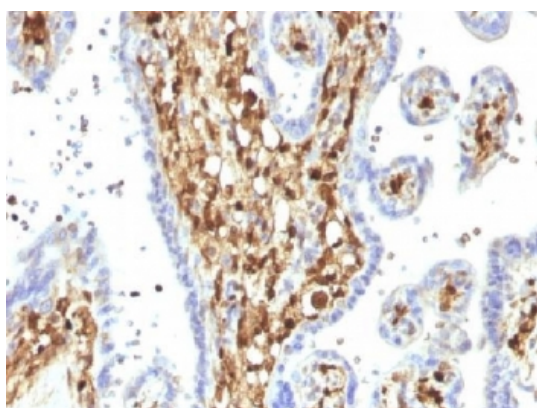
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<b>Application notes</b>	The optimal dilution of the S100A4 antibody for each application should be determined by the researcher.
<b>Antibody Type</b>	Primary Antibody
<b>Clone Number</b>	S100A4/1482
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.



Western blot testing of human 1) HeLa, 2) A549 and 3) A431 cell lysate with S100A4 antibody (clone S100A4/1482). Predicted molecular weight ~12 kDa.



IHC testing of FFPE human placenta with S100A4 antibody (clone S100A4/1482). Required HIER: steam sections in 10mM citrate buffer, pH6, for 10-20 min followed by cooling.

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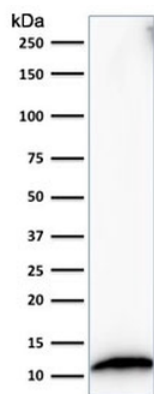
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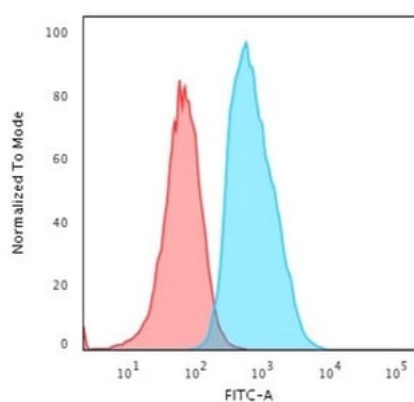
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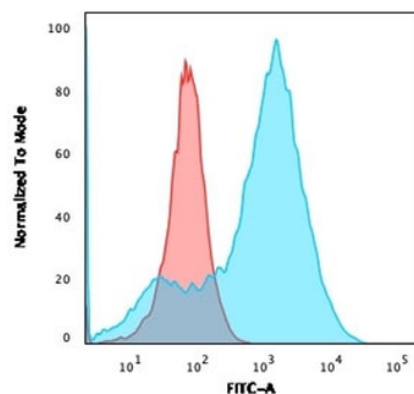
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Western blot testing of human HeLa cell lysate with S100A4 antibody (clone S100A4/1482). Predicted molecular weight ~12 kDa.



Flow cytometry testing of human T98G cells with S100A4 antibody (clone S100A4/1482); Red = isotype control, Blue = S100A4 antibody.



Flow cytometry testing of human A549 cells with S100A4 antibody (clone S100A4/1482); Red = isotype control, Blue = S100A4 antibody.

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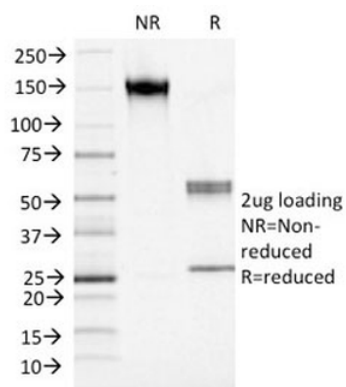
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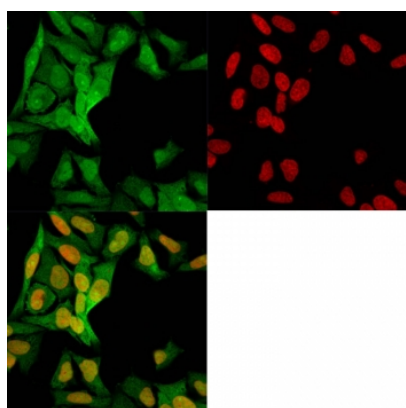
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SDS-PAGE analysis of purified, BSA-free S100A4 antibody (clone S100A4/1482) as confirmation of integrity and purity.



IF/ICC testing of fixed and permeabilized human HeLa cells with FSP1 antibody (clone S100A4/1482, green) and Reddot nuclear stain (red).

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