

Product Datasheet

S100A4 Antibody / FSP1 (orb2640280)

Description	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. FSP1 exerts its function via direct interaction with a number of proteins including p53, p63, non-muscle myosin IIA, $\alpha 6 \beta 4$ integrin, and liprin b1. FSP1 is overexpressed in highly metastatic cancers, which makes it useful as a marker of tumor progression.
Species/Host	Mouse
Reactivity	Human, Mouse
Conjugation	Unconjugated
Tested Applications	FACS, IF, IHC-P, WB
Immunogen	A recombinant human partial protein (amino acids 1-200) was used as the immunogen for the recombinant FSP1 antibody.
Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin (US sourced) and 0.05% sodium azide
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 FSP1 antibody for each application should be determined by the researcher.
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide
Isotype	Mouse IgG1, kappa
Clonality	Monoclonal
Clone Number	S100A4/1481

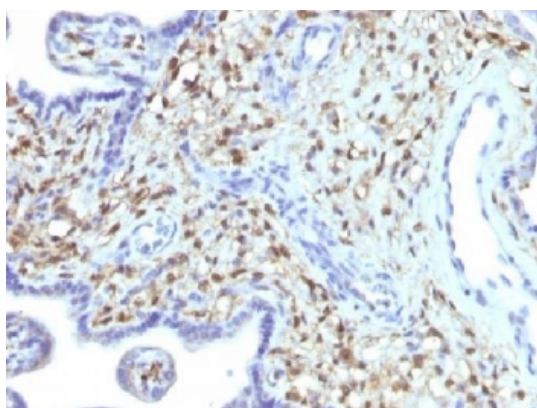
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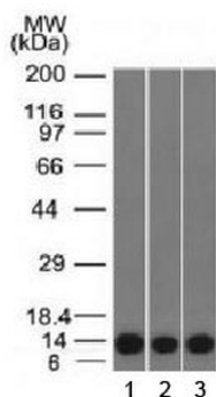
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Antibody Type	Primary Antibody
Purity	Protein G affinity chromatography
Uniprot ID	P26447
Hazard Information	This FSP1 antibody is available for research use only.
Dilution Range	Flow cytometry: 1-2ug/million cells, Immunofluorescence: 1-2ug/ml, Western blot: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Expiration Date	12 months from date of receipt.



IHC testing of FFPE human placenta with FSP1 antibody (clone S100A4/1481). Required HIER: steam sections in 10mM citrate buffer, pH6, for 10-20 min followed by cooling.



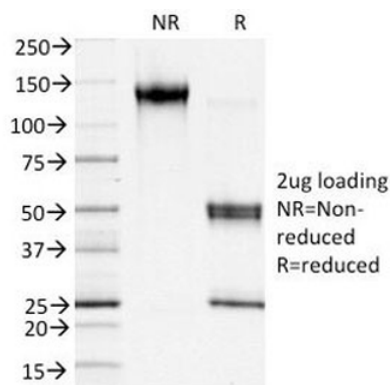
Western blot testing of human 1) HeLa, 2) A549 and 3) A431 cell lysate with FSP1 antibody. Predicted molecular weight ~12 kDa.

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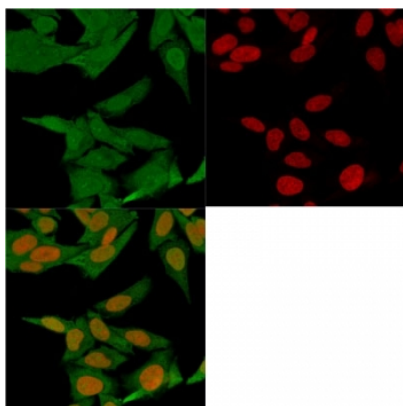
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SDS-PAGE Analysis of Purified, BSA-Free FSP1 Antibody (clone S100A4/1481). Confirmation of Integrity and Purity of the Antibody.



IF/ICC testing of fixed and permeabilized human HeLa cells with FSP1 antibody (clone S100A4/1481, green) and Reddot nuclear stain (red).

Human Protein Microarray Specificity Validation



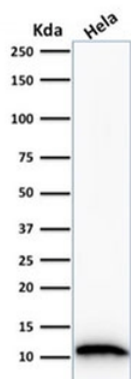
Analysis of HuProt (TM) microarray containing more than 19,000 full-length human proteins using S100A4 antibody (clone S100A4/1481). These results demonstrate the foremost specificity of the S100A4/1481 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination 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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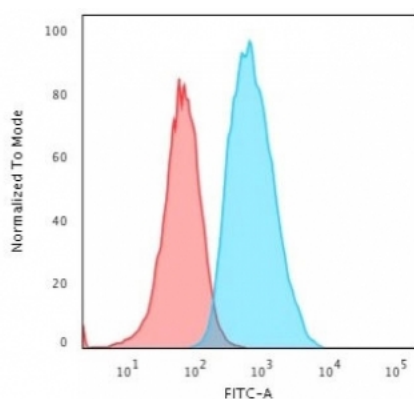
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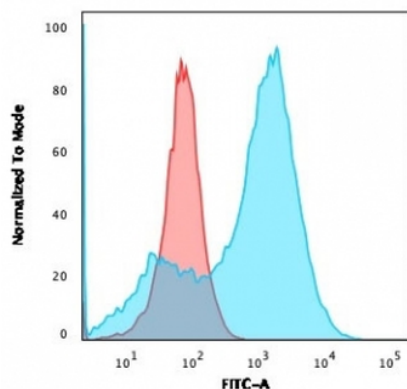
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Western blot testing of human HeLa cell lysate with FSP1 antibody. Predicted molecular weight ~12 kDa.



Flow cytometry testing of permeabilized human T98G cells with FSP1 antibody (clone S100A4/1481); Red = isotype control, Blue = FSP1 antibody.



Flow cytometry testing of permeabilized human A549 cells with FSP1 antibody (clone S100A4/1481); Red = isotype control, Blue = FSP1 antibody.

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