

Product Datasheet

FSP1 Antibody / S100A4 (orb750070)

Catalog Number	orb750070
Category	Antibodies
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, a6b4 integrin, and liprin b1. FSP1 is overexpressed in highly metastatic cancers, which makes it useful as a marker of tumor progression.
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG1, kappa
Conjugation	Unconjugated
Reactivity	Human, Mouse
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	A recombinant human partial protein (amino acids 1-200) was used as the immunogen for the recombinant FSP1 antibody.
UniProt ID	P26447
Tested applications	FACS, IF, IHC-P, WB
Dilution range	Flow cytometry: 1-2ug/10 ⁶ cells, Immunofluorescence: 1-2ug/ml, Western blot: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT

Biorbyt Ltd.

7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom

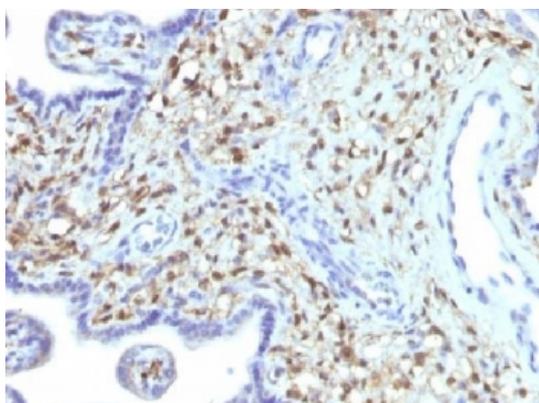
Email: info@biorbyt.com, support@biorbyt.com
Phone: [+44 \(0\)1223 859353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

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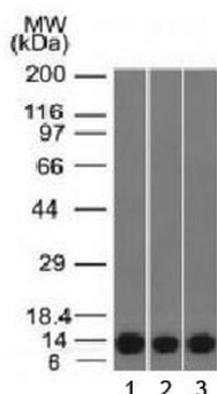
68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713
United States

Email: info@biorbyt.com, support@biorbyt.com
Phone: [+1 \(415\) 906-5211](tel:+1(415)906-5211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

Application notes	The optimal dilution of the FSP1 antibody for each application should be determined by the researcher.
Antibody Type	Primary Antibody
Clone Number	S100A4/1481
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.



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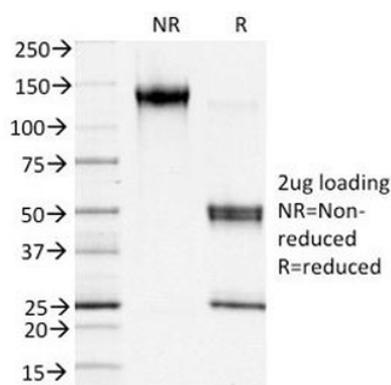
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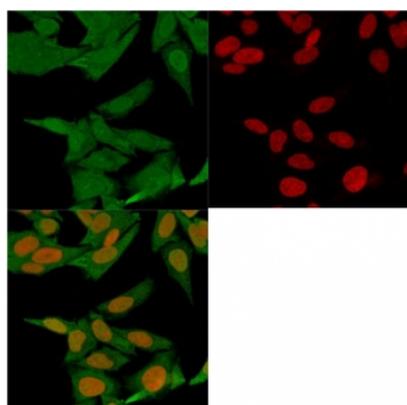
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SDS-PAGE Analysis of Purified, BSA-Free FSP1 Antibody (clone S100A4/1481). Confirmation of Integrity and Purity of the Antibody.



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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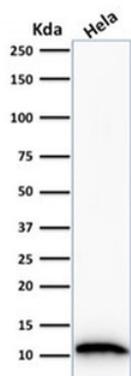
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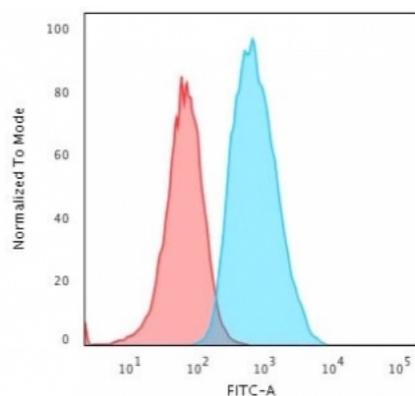
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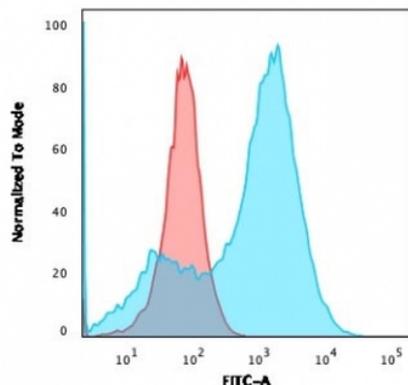
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Western blot testing of human HeLa cell lysate with FSP1 antibody. Predicted molecular weight ~12 kDa.



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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