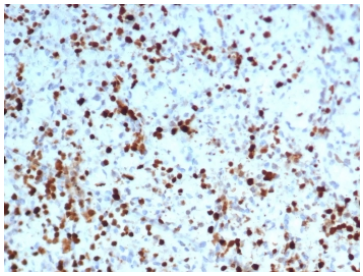
S100A4 Antibody [clone S100A4/7096] (V4030)

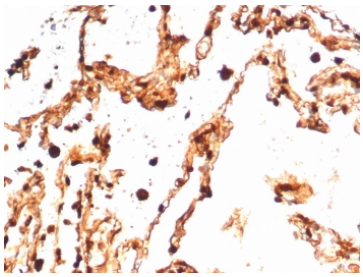
Catalog No.	Formulation	Size
V4030-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4030-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4030SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

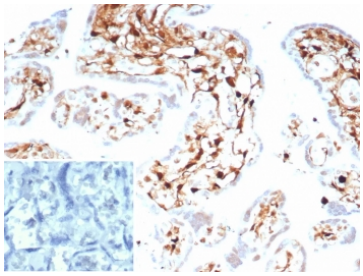
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	S100A4/7096
Purity	Protein A/G affinity
UniProt	P26447
Localization	Cytoplasm, nucleus
Applications	Western blot: 2-4ug/ml Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This S100A4 antibody is available for research use only.



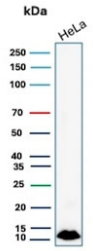
IHC staining of FFPE human spleen tissue with S100A4 antibody (clone S100A4/7096). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



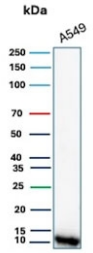
IHC staining of FFPE human lung tissue with S100A4 antibody (clone S100A4/7096). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



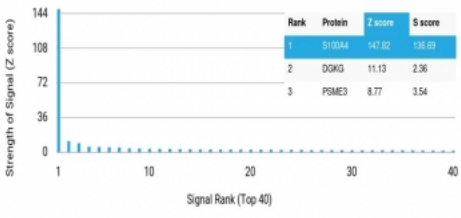
IHC staining of FFPE human placental tissue with S100A4 antibody (clone S100A4/7096). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Western blot testing of human HeLa cell lysate with S100A4 antibody. Predicted molecular weight ~12 kDa.



Western blot testing of human A549 cell lysate with S100A4 antibody. Predicted molecular weight ~12 kDa.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using S100A4 antibody (clone S100A4/7096). These results demonstrate the foremost specificity of the S100A4/7096 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.

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, 4 integrin, and liprin b1. S100A4 is overexpressed in highly metastatic cancers, which makes it useful as a marker of tumor progression.

Application Notes

Optimal dilution of the S100A4 antibody should be determined by the researcher.

Immunogen

A portion of amino acids 1-200 from the human S100A4 protein was used as the immunogen for the S100A4 antibody.

Storage

Aliquot the S100A4 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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