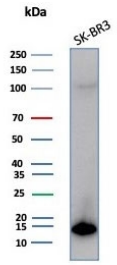
S100P Antibody for WB / MIG9 Antibody for Western Blotting [clone S100P/7373] (V5046)

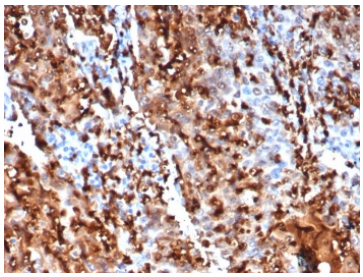
Catalog No.	Formulation	Size
V5046-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5046-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5046SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

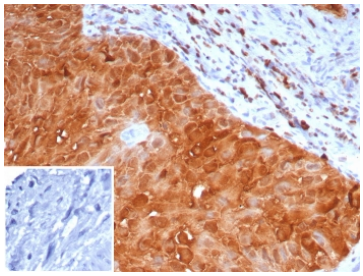
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	S100P/7373
Purity	Protein A/G affinity
UniProt	P25815
Localization	Nucleus, Cytoplasm
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This S100P antibody is available for research use only.



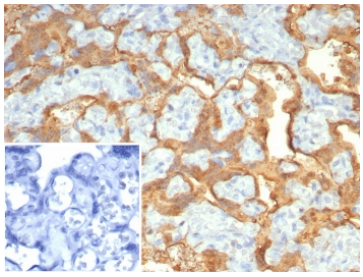
S100P Antibody for WB / MIG9 Antibody for Western Blotting (clone S100P/7373). Western blot analysis of human SK-BR-3 cell lysate demonstrates detection of S100 Calcium Binding Protein P / MIG9 using S100P Antibody for WB. A band is detected at approximately 10 kDa, consistent with the predicted molecular weight of S100P. Lane 1: human SK-BR-3 whole cell lysate.



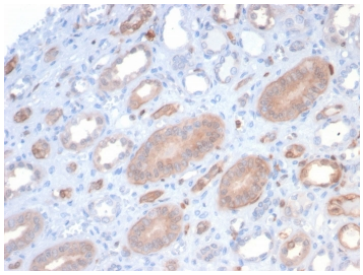
IHC staining of FFPE human lung cancer with S100P antibody (clone S100P/7373). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



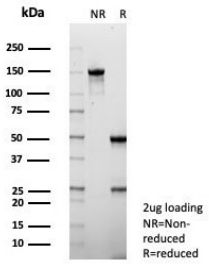
IHC staining of FFPE human placental tissue with S100P antibody (clone S100P/7373). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human placenta with S100P antibody (clone S100P/7373). 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.



IHC staining of FFPE human kidney with S100P antibody (clone S100P/7373). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free S100P antibody (clone S100P/7373) as confirmation of integrity and purity.

Description

S100 calcium binding protein P (S100P), also known as migration inducing gene 9 (MIG9), is a member of the S100 family of EF-hand calcium-binding proteins encoded by the S100P gene. S100P Antibody for WB enables detection of S100 Calcium Binding Protein P in cell and tissue lysates using western blotting, allowing researchers to evaluate S100P protein expression levels in experimental samples. This small calcium-binding protein participates in signaling pathways that regulate cellular proliferation, migration, survival, and cytoskeletal dynamics.

Western blot analysis is widely used to examine S100P expression across different cell types and tissues. Because S100P is a relatively small intracellular protein, western blotting allows clear detection of the target protein within complex

lysate preparations. Detection of migration inducing gene 9 protein by western blot enables comparison of S100P expression levels between normal and diseased tissues as well as across different experimental conditions.

Studies investigating epithelial tumor biology frequently evaluate S100P expression using western blot techniques. Increased S100P expression has been reported in several epithelial malignancies including pancreatic, breast, prostate, and lung cancers. Western blot analysis allows researchers to quantify S100P protein levels and confirm expression changes observed in transcriptomic or proteomic studies.

The MIG9 protein can interact with intracellular signaling partners and extracellular receptors such as receptor for advanced glycation end products (RAGE), contributing to pathways that regulate cell migration and inflammatory signaling. Because these pathways often involve changes in protein abundance or signaling activity, western blot detection of S100P provides an effective approach for monitoring protein expression during cellular signaling experiments.

S100P Antibody for WB / MIG9 Antibody for Western Blotting (clone S100P/7373) supports detection of S100 Calcium Binding Protein P in research applications focused on protein expression analysis. When applied to cell or tissue lysates, the antibody allows researchers to evaluate S100P protein levels and investigate calcium-regulated signaling pathways associated with epithelial cell biology and tumor progression.

Application Notes

Optimal dilution of the S100P Antibody for WB should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 1-95) from the human protein was used as the immunogen for the S100P Antibody for WB.

Storage

Aliquot the S100P antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

Migration inducing gene 9 antibody, MIG9 antibody, S100 calcium binding protein P antibody, S100P protein antibody

Copyright © NSJ Bioreagents. All rights reserved.