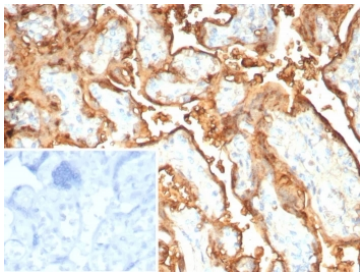
S100P Antibody Recombinant Mouse MAb rS100P/9254 / MIG9 [clone rS100P/9254] (V5523)

Catalog No.	Formulation	Size
V5523-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5523-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5523SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

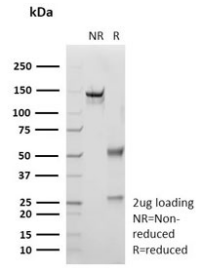
Recombinant MOUSE MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG2b, kappa
Clone Name	rS100P/9254
Purity	Protein A/G affinity
UniProt	P25815
Localization	Nucleus, Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This S100P antibody is available for research use only.



S100P Antibody Recombinant Mouse MAb rS100P/9254 in human placental tissue. Immunohistochemistry staining of FFPE human placenta demonstrates cytoplasmic staining in trophoblastic epithelial cells consistent with expression of S100 calcium binding protein P / S100P, also known as migration inducing gene 9 (MIG9). Brown chromogenic signal highlights S100P-positive trophoblast layers within the placental tissue while surrounding stromal elements show comparatively weaker staining. The inset shows PBS used in place of primary antibody as a secondary-only negative control. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 Tris buffer with 1 mM EDTA for 20 min before staining.



SDS-PAGE analysis of purified, BSA-free S100P Antibody Recombinant Mouse MAb rS100P/9254 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 Recombinant Mouse MAb rS100P/9254 enables detection of S100 Calcium Binding Protein P expression in human cells and tissues for research investigating calcium-regulated signaling pathways and epithelial cell biology. S100P participates in intracellular signaling networks that regulate cellular proliferation, migration, survival, and cytoskeletal organization.

S100P is primarily expressed in epithelial cell populations and has been widely studied in glandular tissues and epithelial-derived tumors. The protein functions as a calcium-binding regulatory molecule capable of interacting with intracellular targets as well as extracellular signaling partners such as receptor for advanced glycation end products (RAGE). Through these interactions, migration inducing gene 9 can influence signaling pathways associated with inflammation, tumor progression, and cellular motility.

Elevated S100P expression has been reported in several epithelial malignancies including pancreatic, breast, prostate, lung, and colorectal cancers. Increased expression of migration inducing gene 9 has been associated with enhanced tumor cell invasion and metastatic potential in a variety of cancer models. These observations have led to significant interest in S100P as a molecular marker in studies of epithelial tumor biology and calcium-regulated signaling networks.

Recombinant monoclonal antibodies such as rS100P/9254 provide highly consistent target recognition because they are generated using recombinant antibody engineering methods that ensure uniform antibody sequence and reproducible binding characteristics. A recombinant mouse monoclonal S100P antibody therefore supports reliable detection of S100P protein across experimental studies while maintaining batch-to-batch consistency.

S100P Antibody Recombinant Mouse MAb rS100P/9254 recognizes S100 Calcium Binding Protein P and supports detection of this calcium-binding protein in research applications focused on epithelial cell signaling, tumor-associated pathways, and calcium-regulated cellular processes. Detection of migration inducing gene 9 expression provides insight into epithelial cell function and helps investigators study the biological roles of S100P in normal tissues and cancer models.

Application Notes

Optimal dilution of the S100P Antibody Recombinant Mouse MAb rS100P/9254 should be determined by the researcher.

Immunogen

A recombinant fragment corresponding to the C-terminus of human S100P/MIG9 protein was used as the immunogen for the recombinant S100P antibody.

Storage

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

Alternate Names

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