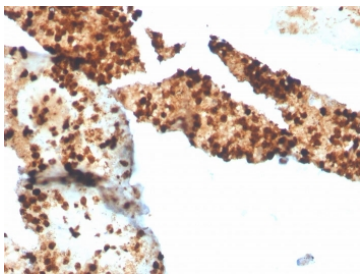
S100P Antibody Recombinant Rabbit MAb S100P/4386R / S100 Calcium Binding Protein P [clone S100P/4386R] (V8738)

Catalog No.	Formulation	Size
V8738-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8738-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8738SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	S100P/4386R
Purity	Protein A affinity chromatography
UniProt	P25815
Localization	Nucleus, cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
Limitations	This recombinant S100P antibody is available for research use only.



S100P Antibody Recombinant Rabbit MAb S100P/4386R in human spleen tissue. Immunohistochemistry staining of FFPE human spleen demonstrates cytoplasmic staining in scattered inflammatory 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 inflammatory cells within splenic tissue while surrounding lymphoid populations show comparatively weaker staining. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 Tris buffer with 1 mM EDTA for 20 min before staining.

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 Rabbit MAb S100P/4386R enables detection of S100 Calcium Binding Protein P expression in human cells and tissues for research investigating epithelial biology and calcium-regulated signaling pathways. This small calcium-binding protein participates in intracellular signaling processes that regulate cellular proliferation, migration, survival, and cytoskeletal organization.

S100P is primarily expressed in epithelial cells and has been widely studied in glandular tissues and epithelial-derived tumors. The protein functions as a signaling mediator capable of interacting with intracellular partners and extracellular receptors such as receptor for advanced glycation end products (RAGE). Through these interactions, migration inducing gene 9 can activate signaling pathways that regulate inflammatory responses, cell motility, and tumor progression.

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 experimental systems. These observations have generated significant interest in S100P as a molecular component of epithelial tumor biology and calcium-regulated signaling networks.

Recombinant rabbit monoclonal antibodies such as clone S100P/4386R provide consistent target recognition through defined antibody sequences generated using recombinant antibody engineering methods. A recombinant rabbit monoclonal S100P antibody supports reliable detection of the S100P protein across experimental studies and helps ensure reproducible results in protein expression research.

S100P Antibody Recombinant Rabbit MAb S100P/4386R recognizes S100 Calcium Binding Protein P and supports detection of migration inducing gene 9 in research applications focused on epithelial signaling pathways, tumor biology, and calcium-regulated cellular processes. Detection of S100P expression provides insight into epithelial cell function and helps investigators explore the biological role of this calcium-binding protein in normal tissues and cancer models.

Application Notes

Optimal dilution of the S100P Antibody Recombinant Rabbit MAb S100P/4386R should be determined by the researcher.

Immunogen

A recombinant fragment corresponding to the C-terminal region of human S100P protein was used as the immunogen for the S100P Antibody Recombinant Rabbit MAb S100P/4386R.

Storage

Store the recombinant S100P antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

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