

Product Datasheet

S100A9 Antibody / MRP14 / Calgranulin B / Calprotectin L1H (orb749780)

Description

This mAb stains the cytoplasm of macrophages and histiocytes in hematopoietic organs, Kupffer's cells of the liver and Langerhan's cells of the skin. It also stains the mantle zone B-lymphocytes of the lymph node and spleen, spermatogonia, and chief cells of the stomach. S100A9 is expressed by macrophages in acutely inflamed tissues and in chronic inflammation. It is detected in peripheral blood leukocytes, in neutrophils and granulocytes. It is present at sites of vascular inflammation. S100A9 is also expressed in epithelial cells constitutively or induced during dermatoses. S100A9 is a Calcium-binding protein. It has antimicrobial activity towards bacteria and fungi. It is important for resistance to invasion by pathogenic bacteria. It up-regulates transcription of genes that are under the control of NF-kappa-B. S100A9 plays a role in the development of endotoxic shock in response to bacterial lipopolysaccharide (LPS). It promotes tubulin polymerization when unphosphorylated. It also promotes phagocyte migration and infiltration of granulocytes at sites of wounding. It plays a role as a pro-inflammatory mediator in acute and chronic inflammation and up-regulates the release of IL8 and cell-surface expression of ICAM1.

Species/Host

Mouse

Reactivity

Human

Conjugation

Unconjugated

Tested Applications

IHC-P

Immunogen

Recombinant human protein was used as the immunogen for the S100A9 antibody.

Preservatives

0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin (US sourced) and 0.05% sodium azide

Storage

Store the S100A9 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).

Note

For research use only

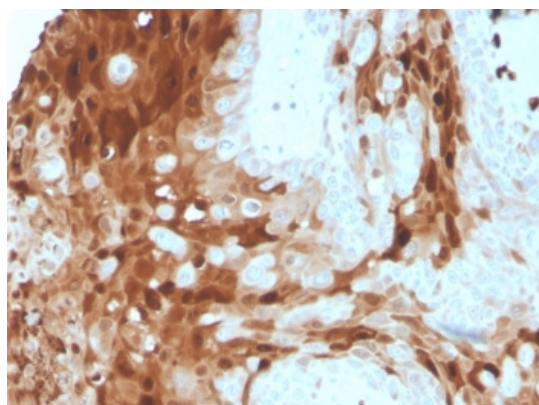
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Application notes	Optimal dilution of the S100A9 antibody should be determined by the researcher.1. For staining of formalin-fixed, paraffin-embedded tissues, digest with Trypsin at 1mg/ml PBS, 15 min at RT
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide
Isotype	Mouse IgG1, kappa
Clonality	Monoclonal
Clone Number	S100A9/1075
Antibody Type	Primary Antibody
Purity	Protein G affinity chromatography
Uniprot ID	P06702
Hazard Information	This S100A9 antibody is available for research use only.
Dilution Range	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Expiration Date	12 months from date of receipt.



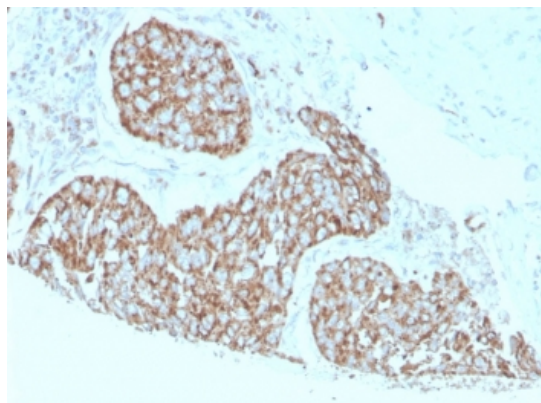
IHC staining of FFPE human breast cancer tissue with S100A9 antibody (clone S100A9/1075). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

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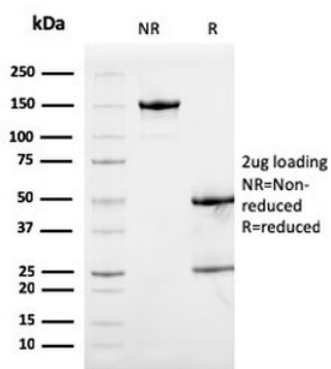
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IHC staining of FFPE human breast cancer tissue with S100A9 antibody (clone S100A9/1075). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free S100A9 antibody (clone S100A9/1075) as confirmation of integrity and purity.

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