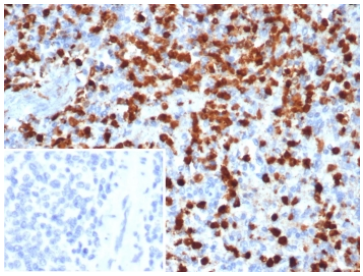
Calgranulin B Antibody S100A9/7548 / Calprotectin Mouse Monoclonal Antibody [clone S100A9/7548] (V4715)

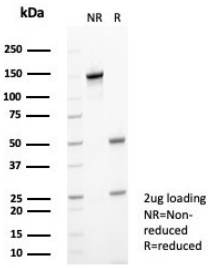
Catalog No.	Formulation	Size
V4715-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4715-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4715SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG3, kappa
Clone Name	S100A9/7548
Purity	Protein A/G affinity
UniProt	P06702
Localization	Cytoplasm, Extracellular (secreted), Cell Surface
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This Calgranulin B Antibody S100A9/7548 is available for research use only.



IHC staining of FFPE human spleen tissue with Calgranulin B Antibody S100A9/7548. 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.



SDS-PAGE analysis of purified, BSA-free Calprotectin antibody (clone S100A9/7548) as confirmation of integrity and purity.

Description

Calgranulin B Antibody S100A9/7548 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.

MRP14, also known as S100A9 or calgranulin B, is a calcium-binding protein involved in neutrophil activation, innate immune signaling, and calprotectin formation. For an additional antibody targeting this inflammatory regulator, with western blot, immunohistochemistry, immunofluorescence, flow cytometry, and knockout validation data, see our S100A9 Antibody page.

Application Notes

Optimal dilution of the Calgranulin B Antibody S100A9/7548 should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 1-100) from the human protein was used as the immunogen for the Calgranulin B antibody.

Storage

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

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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