Datasheet for ABIN6940553

anti-S100A9 antibody

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Overview

Quantity:	100 µg
Target:	S100A9
Reactivity:	Human, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This S100A9 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunofluorescence (IF), Staining Methods (StM)

Product Details

Immunogen:	Recombinant human S100A9 protein
Clone:	S100A9-1075
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

Target Details

Target:	S100A9
Alternative Name:	S100A9 (S100A9 Products)
Background:	This MAb stains the cytoplasm of macrophages and histiocytes in hematopoietic organs, Kupffers cells of the liver and Langerhans 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.

Target Details

	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.
Molecular Weight:	14kDa
Gene ID:	6280
UniProt:	P06702
Pathways:	Transition Metal Ion Homeostasis, Positive Regulation of Endopeptidase Activity, S100 Proteins

Application Details

Application Notes:	Positive Control: Liver or histiocytoma. Known Application: Flow Cytometry (0.5-1 µg/million cells), Immunofluorescence (0.5-1 µg/mL), Immunohistochemistry (Formalin-fixed) (0.5-1 µg/mL for 30 minutes at RT) (For staining of formalin-fixed, paraffin-embedded tissues, digest with trypsin at 1 mg/mL PBS, 15 min at RT Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

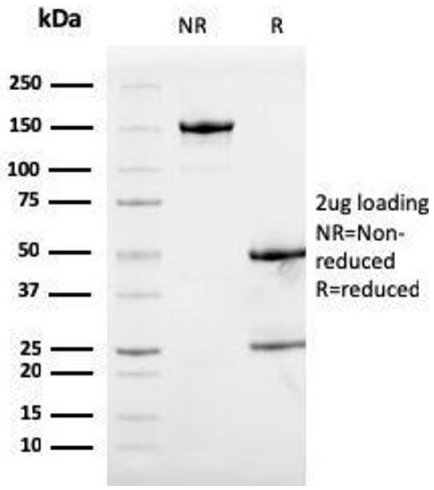
Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C

Handling

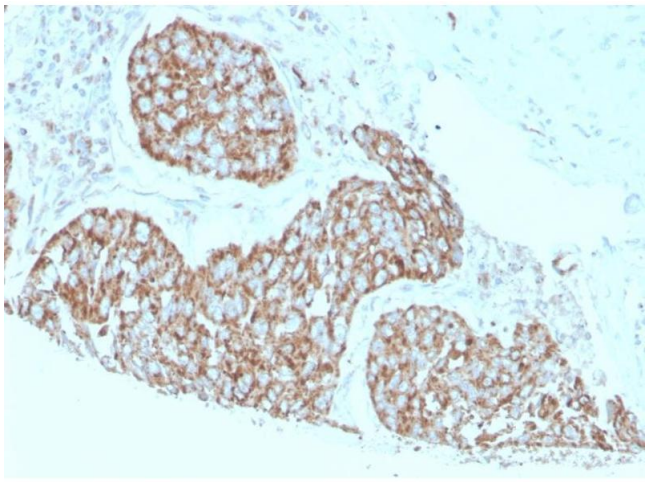
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months

Images



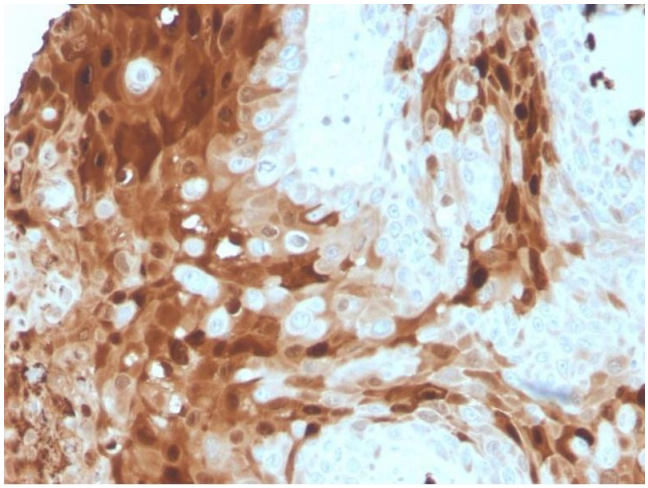
SDS-PAGE

Image 1. SDS-PAGE Analysis Purified Calprotectin Mouse Monoclonal Antibody (S100A9/1075). Confirmation of Purity and Integrity of Antibody



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human breast carcinoma stained with Calprotectin Mouse Monoclonal Antibody (S100A9/1075).



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human skin carcinoma stained with Calprotectin Mouse Monoclonal Antibody (S100A9/1075).