

## Calprotectin / MRP14 / S100A9 / Calgranulin B Antibody

Mouse Monoclonal Antibody [Clone S100A9/7553]

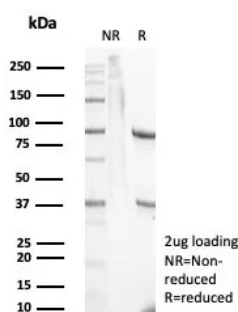
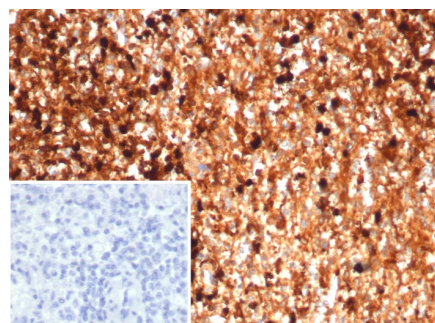
Catalog No	Format	Size
6280-MSM13-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
6280-MSM13-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
6280-MSM13-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details	
Clone	S100A9/7553
Gene Name	S100A9
Immunogen	Recombinant fragment (around aa1-100) of human S100A9 protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2 / Kappa
Mol. Weight of Antigen	14kDa
Cellular Localization	Cytoplasm. Extracellular (secreted). Cell Surface.
Species Reactivity	Human
Positive Control	Liver or histiocytoma.

\*Optimal dilution for a specific application should be determined.

### Product Images for Calprotectin / MRP14 / S100A9 / Calgranulin B Antibody



Formalin-fixed, paraffin-embedded human spleen stained with Calprotectin Mouse Monoclonal Antibody (S100A9/7553). Inset: PBS instead of primary antibody; secondary only negative control.

SDS-PAGE Analysis of Purified Calprotectin Mouse Monoclonal Antibody (S100A9/7553). Confirmation of Purity and Integrity of Antibody.

### **Specificity & Comments**

This MAb stains the cytoplasm of macrophages and histiocytes in hematopoietic organs, Kupffer's 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. 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.

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### **Limitations and Warranty**

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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### **Supplied As**

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% azide. Also available WITHOUT azide at 1.0mg/ml.

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### **Storage and Stability**

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.

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### **Research Areas**

Cardiovascular, Dendritic Cell Marker, Immunology, Infectious Disease, Signal Transduction

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