

## Calprotectin / MRP14 / S100A9 / Calgranulin B Antibody

Mouse Monoclonal Antibody [Clone CPT/1028]

Catalog No	Format	Size
6280-MSM4-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
6280-MSM4-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
6280-MSM4-P1BX	Purified Ab WITHOUT BSA at 1.0mg/ml	100 ug

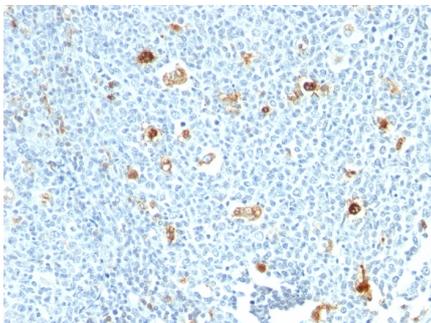
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

Clone	CPT/1028
Gene Name	S100A9
Immunogen	Recombinant human Calprotectin protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgM / Kappa
Mol. Weight of Antigen	14kDa
Cellular Localization	Cell membrane, Cytoplasm, Cytoskeleton, Secreted
Species Reactivity	Human
Positive Control	lymph node or spleen., Tonsil

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

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



Formalin-fixed, paraffin-embedded human tonsil stained with Calprotectin Monoclonal Antibody (CPT/1028)

### **Specificity & Comments**

Recognizes the L1 or Calprotectin molecule, an intra-cytoplasmic antigen comprising of a 12kDa alpha chain and a 14kDa beta chain. Calprotectin comprises 60% of the cytoplasmic protein fraction of circulating polymorphonuclear granulocytes and is also found in monocytes, macrophages and ileal tissue eosinophils. Peripheral blood monocytes carry the antigen extra- and intracellularly, neutrophils only intracellularly. Calprotectin has antibacterial, antifungal, immunomodulating and antiproliferative effects. Besides this it is a potent chemotactic factor for neutrophils. Plasma concentrations are elevated in diseases associated with increased neutrophil activity, like inflammatory bowel disease. Granulocytes terminate their existence after transmigration through the intestinal wall. Therefore calprotectin is also detectable in feces. Elevated levels of calprotectin have been observed in body fluids such as plasma, saliva, gingival crevicular fluid, stools, and synovial fluid during infection and inflammatory conditions. This MAb reacts with neutrophils, monocytes, macrophages, and squamous mucosal epithelia and is important for identifying macrophages in tissue sections.

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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. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA at 1.0mg/ml.

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### **Storage and Stability**

Antibody with azide - store at 2 to 8°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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