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36-3124: Anti-Calprotectin / MRP14 / S100A9 / Calgranulin B Monoclonal Antibody(Clone: rMAC3781)

Clonality :	Monoclonal
Clone Name :	rMAC3781
Application :	IHC
Reactivity :	Human, Rat, Mouse
Gene :	S100A8 & S100A9
Gene ID :	6279; 6280
Uniprot ID :	P05109; P06702
Alternative Name :	60B8AG; Calgranulin A (CAGA); Calgranulin B (CAGB); Calprotectin L1L subunit; Chemotactic cytokine CP-10; Cystic fibrosis antigen (CFAG); Leukocyte L1 complex light chain; L1Ag; Macrophage L1 protein Calprotectin; Migration inhibitory factor related protein 8; Myeloid-related protein 8 (MRP-8 or P8); Myeloid-related protein 14 (MRP-14 or P14); Neutrophil cytosolic 7kDa protein; NIF
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Affinity Purified monocyte membrane preparation

Description

Recognizes the L1 or Calprotectin molecule, an intra-cytoplasmic antigen comprising of a 12kDa alpha chain and a 14kDa beta chain expressed by granulocytes, monocytes and by tissue macrophages. Macrophages usually arise from hematopoietic stem cells in the bone marrow. Under migration into tissues, the monocytes undergo further differentiation to become multifunctional tissue macrophages. They are classified into normal and inflammatory macrophages. Normal macrophages include macrophages in connective tissue (histiocytes), liver (Kupffer s cells), lung (alveolar macrophages), lymph nodes (free and fixed macrophages), spleen (free and fixed macrophages), bone marrow (fixed macrophages), serous fluids (pleural and peritoneal macrophages), skin (histiocytes, Langerhans's cell) and in other tissues. Inflammatory macrophages are present in various exudates. Macrophages are part of the innate immune system, recognizing, engulfing and destroying many potential pathogens including bacteria, pathogenic protozoa, fungi and helminthes. This MAb reacts with neutrophils, monocytes, macrophages, and squamous mucosal epithelia and has been shown as an important marker for identifying macrophages in tissue sections.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	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.

Application Note

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes 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&degC followed by cooling at RT for 20 minutes);

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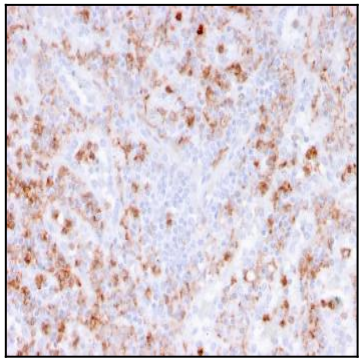


Fig. 1: Formalin-fixed, paraffin-embedded human spleen stained with S100A9 Recombinant Mouse Monoclonal Antibody (rMAC3781).

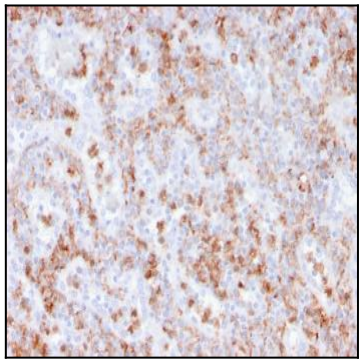


Fig. 2: Formalin-fixed, paraffin-embedded human spleen stained with S100A9 Recombinant Mouse Monoclonal Antibody (rMAC3781).

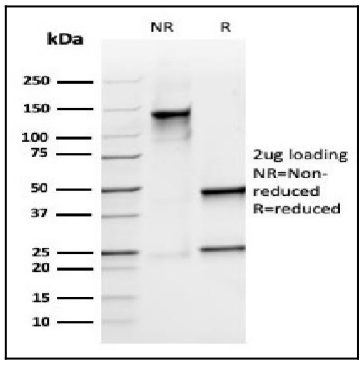


Fig. 3: SDS-PAGE Analysis Purified S100A9 Recombinant Mouse Monoclonal Antibody (rMAC3781). Confirmation of Integrity and Purity of Antibody

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