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36-3127: Anti-Calprotectin / MRP14 / S100A9 / Calgranulin B Monoclonal Antibody(Clone: 47-8D3; same as DF3973)

Clonality :	Monoclonal
Clone Name :	47-8D3; same as DF3973
Application :	FACS,IF,IHC
Reactivity :	Human, Rat
Gene :	S100A9
Gene ID :	6280
Uniprot ID :	P06702
Alternative Name :	S100-A9; MRP14; calgranulin-B; calprotectin L1H subunit; leukocyte L1 complex heavy chain; migration inhibitory factor-related protein 14; S100 calcium-binding protein A9 (calgranulin B)
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Human peripheral blood monocyte components

Description

This MAb 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.

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% azide. Also available WITHOUT 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

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(For staining of formalin-fixed, paraffin-embedded tissues, digest with trypsin at 1mg/ml PBS, 15 min at RT

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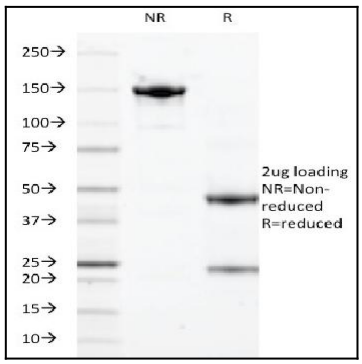


Fig. 1: SDS-PAGE Analysis Purified Calprotectin Monoclonal Antibody (DF3973). Confirmation of Integrity and Purity of Antibody.

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