

Datasheet for ABIN111884

**anti-S100A8/A9 Complex (Calprotectin) antibody (FITC)**[Go to Product page](#)**2** Publications

## Overview

Quantity:	0.2 mg
Target:	S100A8/A9 Complex (Calprotectin) (S100A8/A9)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This S100A8/A9 Complex (Calprotectin) antibody is conjugated to FITC
Application:	Flow Cytometry (FACS), Immunofluorescence (IF)

## Product Details

Immunogen:	Cultured Human Monocytes. Remarks: The antigen is MRP8/14 (calprotectin), the epitope involves parts of both subunits MRP8 and MRP14.
Clone:	2-70E-011
Isotype:	IgG1
Specificity:	This antibody is ideally suited for the detection of early inflammatory macrophages and thus for the classification of acute stage inflammation in tissue sections and in smears, the characterization of tumorous tissues and the in vitro monitoring of peripheral blood cell cultures. Clone 27E10 is unique in that it recognizes an epitope on the MRP8/14 heterocomplex that is not exposed on the individual subunits MRP8 or MRP14. The antibody reacts with Human subpopulations of macrophages, monocytes and granulocytes, peripheral blood monocytes carry the antigen extra- and intracellularly, neutrophils only intracellularly. Antigen Distribution Isolated Cells: Monocytes carry the antigen both on the surface and intracellularly, granulocytes exhibit it only intracellularly. Up to 80 % of monocytes in early cultures (24-48h)

## Product Details

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are positive. No reaction has been seen with lymphocytes or platelets. Tissue Sections: The antigen is found in macrophages in the red pulp of the spleen and liver. It is strongly expressed in macrophages from acute inflamed tissues (peridontitis, contact eczema, urticaria, erythrodermia) where some endothelial and epidermal cells may also express this antigen. It is normally absent on resident mononuclear phagocytes in healthy tissues (skin, gut, thymus).Antigen Distribution

Cross-Reactivity (Details): Species reactivity (tested):Human. The antibody also stains a subpopulation of macrophages of Rhesus Monkey and Bovine tissues. It does not react with Swine tissues.

Purification: Affinity Chromatography

## Target Details

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Target: S100A8/A9 Complex (Calprotectin) (S100A8/A9)

Alternative Name: MRP8 / MRP14 ([S100A8/A9 Products](#))

Background: MRP8 and MRP14 are members of the S100 family of proteins containing 2 EF hand calcium binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. The antigen is produced by the heterocomplex formation of MRP8 (S100A8 or Calgranulin A) and MRP14 (S100A9 or Calgranulin B), two calcium binding proteins of the S 100 protein family.Synonyms: CAGA, CAGB, CFAG, Calgranulin A/B, Calprotectin, L1 Protein, MRP-14, MRP-8, P14, P8

Pathways: [S100 Proteins](#)

## Application Details

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Application Notes: Immunofluorescence. Has been described to work in FACS (10-20 µg/mL). Suggested Positive Control: Human monocytes.  
Other applications not tested.  
Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

## Handling

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Concentration: 0.2 mg/mL

## Handling

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Buffer:	PBS, pH 7.2, 0.09 % Sodium Azide, 10 mg/mL BSA
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one week or (in aliquots) at -20 °C for longer.

## Publications

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Product cited in:	<p>Gajić, Meisels, Kuchar, Hingerl: "Refraction and rightness in photonic crystals." in: <b>Optics express</b>, Vol. 13, Issue 21, pp. 8596-605, (2009) (<a href="#">PubMed</a>).</p> <p>Suwan, Choocheep, Hatano, Kongtawelert, Kimata, Watanabe: "Versican/PDGF-M Assembles Hyaluronan into Extracellular Matrix and Inhibits CD44-mediated Signaling toward Premature Senescence in Embryonic Fibroblasts." in: <b>The Journal of biological chemistry</b>, Vol. 284, Issue 13, pp. 8596-604, (2009) (<a href="#">PubMed</a>).</p>
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