

## Product datasheet for **BM4025F**

### MRP8/14 (S100A8/A9) Mouse Monoclonal Antibody [Clone ID: 27E10]

#### Product data:

Product Type: Primary Antibodies

Clone Name: 27E10

Applications: FC, IF

Recommended Dilution: **Immunocytochemistry.**  
Has been described to work in **FACS** (10-20 µg/ml).  
**Recommended Positive Control:** Human Monocytes.

Reactivity: Human

Host: Mouse

Isotype: IgG1

Clonality: Monoclonal

Immunogen: Cultured Human Monocytes.

**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.

This Monoclonal Antibody **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) 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).



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<b>Formulation:</b>	PBS, pH 7.2 Label: FITC State: Liquid purified IgG fraction Stabilizer: 10 mg/ml BSA Preservative: 0.09% Sodium Azide
<b>Concentration:</b>	0.2 mg/ml
<b>Purification:</b>	Affinity Chromatography
<b>Conjugation:</b>	FITC
<b>Storage:</b>	Store undiluted at 2-8°C. <b>DO NOT FREEZE!</b> This product is photosensitive and should be protected from light.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Background:</b>	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.
<b>Synonyms:</b>	Calgranulin A/B, Calprotectin, L1 Protein, CFAG, P8, P14, CAGA, CAGB, CFAG, MRP-8, MRP-14
<b>Note:</b>	This antibody was produced serum-free, without fetal calf serum.