

Product datasheet for **BM4029**

MRP8 (S100A8) Mouse Monoclonal Antibody [Clone ID: S13.67]

Product data:

Product Type:	Primary Antibodies
Clone Name:	S13.67
Applications:	ELISA, FC, IHC, WB
Recommended Dilution:	ELISA. Immunohistochemistry on Frozen Sections: 1-2 µg/ml (1/100-1/200). Immunohistochemistry on Paraffin Sections: 4 µg/ml (1/50). Pre-treatment for antigen retrieval not required. Has been described to work in FACS and Dot Blots . Suggested Positive Control: Human tonsil.
Reactivity:	Human, Porcine, Rat, Bovine
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Cultured Human monocytes. Antigen: MRP8. Epitope: Suspected in the N- or C-terminal Domain.
Specificity:	Clone S13.67 identifies MRP8: The antibody is useful in various immunological techniques. Histological and serological data indicate that MRP8 is associated with chronic stages of inflammatory diseases. This clone also stains cells in rat spleen, indicating significant cross reactivity with the corresponding Rat MRP8. Antigen Distribution on Isolated Cells: The antigen is found in granulocytes and monocytes. It is absent from other blood cells. In cultured monocytes, maximum MRP8 is expressed after 3-4 days. Antigen Distribution on Tissue Sections: In the tissue, MRP-8 is only found in a distinct subpopulation of inflammatory perivascular infiltrates of the myelo-monocytic lineage. Macrophages increasingly synthesise MRP-8 during the late stages of inflammation. A low MRP-8 (and high MRP-14) expression by macrophages was also reported in granulomatous diseases such as tuberculosis and sarcoidis. In non-granulomatous chronic inflammatory diseases such as chronic rheumatoid arthritis MRP8 and MRP14 positive cells consist of different subpopulations. During early inflammation endothelial cells are also positive with MRP8/MRP14.

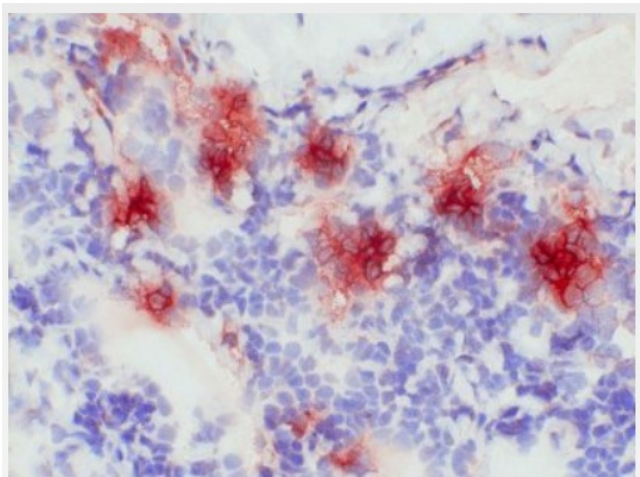


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Formulation:	Stock solution contains PBS, pH 7.2 with 5 mg/ml BSA as a stabilizer and 0.05% (v/v) Kathon CG as preservative. State: Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore by adding 0.5 ml distilled water.
Concentration:	0.2 mg/ml (after reconstitution)
Purification:	Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	S100 calcium binding protein A8
Database Link:	Entrez Gene 6279 Human P05109
Background:	MRP8 is the Ca ²⁺ -binding light subunit of Calprotectin. MRP8 forms Ca ²⁺ -dependent or complexes with MRP14 (S100A9, Calgranulin B). It also forms disulfide-linked homodimers under the influence of hypochlorite, a process thought to abrogate the chemotactic property of MRP8.
Synonyms:	S100-A8, CAGA, MRP-8, CFAG

- Note:**
- Protocol: **Protocol with frozen, ice-cold acetone-fixed sections:**
- The whole procedure is performed at room temperature
1. Wash in PBS
 2. Block endogenous peroxidase
 3. Wash in PBS
 4. Block with 10% normal goat serum in PBS for 30min. in a humid chamber
 5. Incubate with primary antibody (dilution see datasheet) for 1h in a humid chamber
 6. Wash in PBS
 7. Incubate with secondary antibody (peroxidase-conjugated goat anti mouse IgG+IgM (H+L) minimal-cross reaction to human) for 1h in a humid chamber
 8. Wash in PBS
 9. Incubate with AEC substrate (3-amino-9-ethylcarbazol) for 12min.
 10. Wash in PBS
 11. Counterstain with Mayer's hemalum
- Protocol with formalin-fixed, paraffin-embedded sections:**
- The whole procedure is performed at room temperature
1. Deparaffinize and rehydrate tissue section
 2. Block endogenous peroxidase
 3. Wash in PBS
 4. Block with 10% normal goat serum in PBS for 30min. in a humid chamber
 5. Incubate with primary antibody (dilution see datasheet) for 1h in a humid chamber
 6. Wash in PBS
 7. Incubate with secondary antibody (peroxidase-conjugated goat anti mouse IgG+IgM (H+L) minimal-cross reaction to human) for 1h in a humid chamber
 8. Wash in PBS
 9. Incubate with AEC substrate (3-amino-9-ethylcarbazol) for 12min.
 10. Wash in PBS
 11. Counterstain with Mayer's hemalum

Product images:



Frozen Section of Human Tonsil stained with S100A8 Antibody Clone S13.67