

Product datasheet for **BM4028**

MRP8 (S100A8) Mouse Monoclonal Antibody [Clone ID: 8-5C2]

Product data:

Product Type: Primary Antibodies

Clone Name: 8-5C2

Applications: ELISA, IHC, WB

Recommended Dilution: **ELISA.**

Immunohistochemistry on Frozen Sections: 1 µg/ml (1/200).

Immunohistochemistry on Paraffin Sections: 4 µg/ml (1/20-1/50) (No pretreatment for antigen retrieval necessary).

Microwave treatment in 0.01M Citrate, pH 6.0, may enhance the reactivity.

Suggested Positive Control: Human tonsil.

Has been described to work in **Dot Blots** and **not** in FACS.

Reactivity: Human

Host: Mouse

Isotype: IgG1

Clonality: Monoclonal

Immunogen: Cultured Human monocytes.

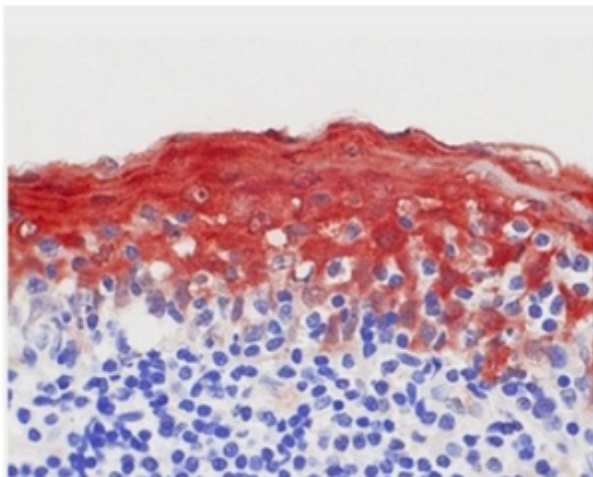
Specificity: This Monoclonal 8-5C2 antibody reacts with Human MRP8 in stimulated monocytes and macrophages in late phase or chronic inflammation. The antigen is MRP8, the epitope is suspected in the central portion of the peptide. **Antigen Distribution on Isolated Cells:** The antigen is found in granulocytes and monocytes but not in other blood cells. In cultured monocytes, maximum MRP8 is expressed after 3-4 days. Myeloid leukaemia stain positive. **Antigen Distribution on Tissue Sections:** MRP8 is found in a distinct subpopulation of inflammatory perivascular infiltrates of the myelo-monocytic lineage. Macrophages synthesise MRP8 increasingly during the late stages of inflammation. A low MRP8 (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 or chronic rejection after allograft transplantation, MRP8 and MRP14 positive cells consist of different subpopulations.



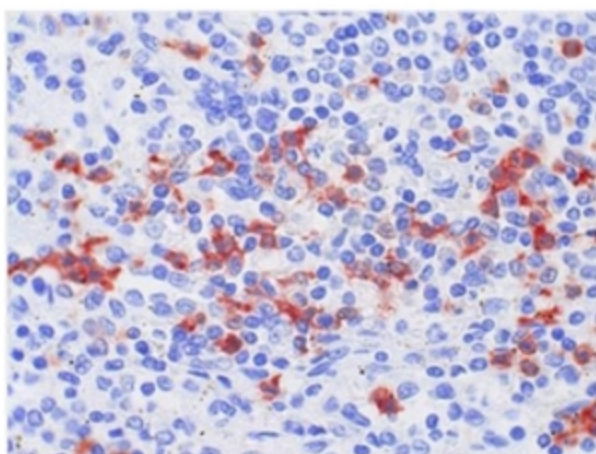
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Formulation:	Stock Solution contains PBS, pH 7.2 State: Purified State: Lyophilized purified Ig fraction Stabilizer: 0.05% Kathon Preservative: 5 mg/ml BSA
Reconstitution Method:	Restore with 0.5 ml distilled water.
Concentration:	0.2 mg/ml (after 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:	Monoclonal antibody 8-5C2 identifies MRP8 (also named S100A8 or Calgranulin A), the Ca ²⁺ -binding light subunit of the inflammatory L-1 protein complex. MRP8 forms Ca ²⁺ dependent dimers 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. The antibody is useful in various immunological techniques. Histological and serological data indicate that MRP8 is associated with chronic stages of inflammatory diseases.
Synonyms:	S100-A8, CAGA, MRP-8, CFAG

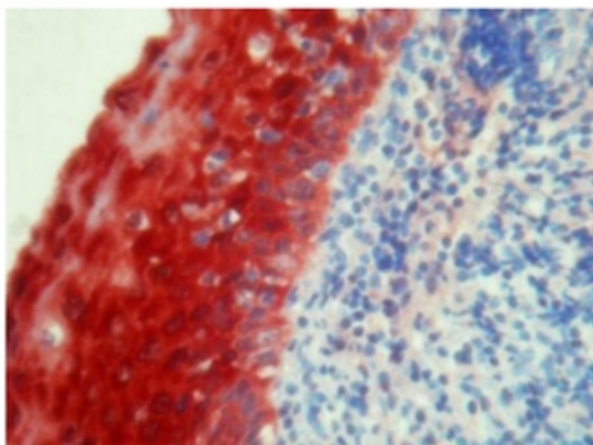
- Note:**
- Protocol: **Protocol with frozen, ice-cold acetone-fixed sections:**
(The whole procedure is performed at room temperature)
1. Wash in PBS
 2. Block endogenous peroxidase
 3. Wash in PBS
 4. Block with 10% normal goat serum in PBS for 30min. in a humid chamber
 5. Incubate with primary antibody (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. Place slide in a cuvette with 250ml 0.01M citrate buffer, pH 6.0
 3. Heat slide in a microwave oven for 2 x 7min. at 700Watt
 4. Leave slide in the buffer for 20min for cooling
 5. Wash in distilled water
 6. Block endogenous peroxidase
 7. Wash in PBS
 8. Block with 10% normal goat serum in PBS for 30min. in a humid chamber
 9. Incubate with primary antibody (dilution see datasheet) for 1h in a humid chamber
 10. Wash in PBS
 11. Incubate with secondary antibody (peroxidase-conjugated goat anti mouse IgG+IgM (H+L) minimal-cross reaction to human) for 1h in a humid chamber
 12. Wash in PBS
 13. Incubate with AEC substrate (3-amino-9-ethylcarbazol) for 12min.
 14. Wash in PBS
 15. Counterstain with Mayer's hemalum

Product images:

Immunohistochemistry on Human Tonsil Paraffin Sections using S100A8 antibody clone 8-5C2.



Immunohistochemistry on Human Spleen Paraffin Sections using S100A8 antibody clone 8-5C2.



Immunohistochemistry on Human Tonsil Paraffin Sections using S100A8 antibody clone 8-5C2.