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Product datasheet for BM4022

Macrophages (Haematopoiesis associated) Mouse Monoclonal Antibody [Clone ID: 25F9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	25F9
Applications:	IHC
Recommended Dilution:	**Immunohistochemistry on Frozen Sections:** 0.25 µg/ml (1/800). **Immunohistochemistry on Paraffin Sections:** 0.5 µg/ml (1/400). Proteinase K pretreatment for antigen retrieval recommended. ***Suggested Positive Control:*** Human tonsil. The antibody is suitable for staining macrophages from bronchial lavage fluids and similar techniques. It is very useful for macrophage phenotyping, particularly for the classification of late inflammatory stages (together with the anti calprotectin clone 27E10 and the anti CD163 clone 5C6-FAT). It is used in tissue sections and in smears, for the characterization of tumorous tissues and the monitoring of macrophage cell cultures.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Cultured Human monocytes.
Specificity:	Monoclonal antibody 25F9 is associated with fully differentiated tissue macrophages both in normal and diseased tissues, particularly also in the late stage of an inflammation. ***Antigen Distribution*** **Isolated Cells:** Absent on freshly isolated monocytes and other blood cells; present on 40-50% of human monocytes after 6-7 days in culture, also positive on some melanoma and carcinoma cell lines. **Tissue Sections:** Kupffer cells, histiocytes (skin), macrophages of the thymus, in the germinal centres of lymph nodes and spleen, in mamma carcinoma, melanoma, osteocarcinoma and gastric cancer; eczema, sarcoidosis, BCG granuloma; synovial lining cells, tuberculoid leprosy: no expression in lepromatous leprosy. Antibody BM4022 reacts with Human Mature Macrophages and Monocytes. **Other Species** (tested so far): Subpopulation of macrophages in Rhesus monkey; reactive with pig alveolar macrophages and Kupffer cells.

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Formulation:	PBS, pH 7.2 State: Purified State: Lyophilized purified Ig fraction Stabilizer: 5 mg/ml BSA Preservative: 0.05% Kathon CG
Reconstitution Method:	Restore with 0.5 ml distilled water.
Concentration:	0.2 mg/ml
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.
Synonyms:	Macrophage marker

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.

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

Product images:

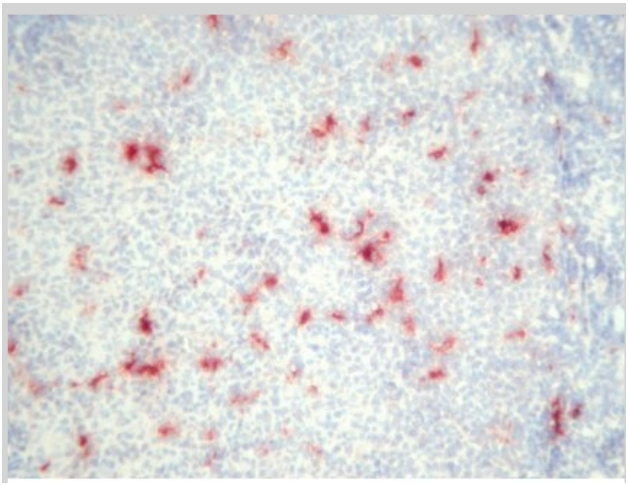

Figure 1. Immunohistochemistry on human tonsil frozen sections using antibody BM4022.