

Product datasheet for **BM4037B**

Macrophages Mouse Monoclonal Antibody [Clone ID: PM-2K]

Product data:

Product Type: Primary Antibodies
Clone Name: PM-2K
Applications: IHC
Recommended Dilution: Immunohistochemistry on frozen section: 0.2 mg/ml (1:1000).

Suggested positive control: Human tonsil.

Does not react on routinely processed paraffin sections.

Reactivity: Bovine, Canine, Feline, Human, Monkey, Porcine

Host: Mouse

Isotype: IgG1

Clonality: Monoclonal

Immunogen: Cultured human peritoneal macrophages

Specificity: This antibody detects Macrophages.

Antigen distribution: Isolated cells: Positive on >90% of alveolar macrophages, and on 10% of adherent peritoneal cells after 1 day culture. Negative on dendritic cells, on freshly isolated blood monocytes or peritoneal cells; and on bone marrow cells including monocytes, myelomonocytic precursors and megakaryocytes.

Tissue sections: PM-2K stains most tissue macrophages in lymphoreticular organs such as thymus, spleen, lymph node and tonsil. It is positive on Kupffer cells of the liver, alveolar macrophages and macrophages in the interstitial tissues of the kidney, pancreas and many other organs. Proliferating macrophages are positive in Gaucher's disease, multicentric reticulohistiocytosis and malignant histiocytosis. In MFH infiltrating macrophages are stained but not tumour cells. Some bone stromal cells but not osteoclast-like multinucleated giant cells are stained in GCT. Microglial cells, osteoclasts and dendritic cells such as Langerhans cells, interdigitating cells and follicular dendritic cells are negative.

Formulation: Phosphate buffered saline pH 7.2 (PBS)
 State: Purified
 State: Lyophilized affinity purified Ig fraction
 Stabilizer: 5 mg/ml bovine serum albumin (BSA)
 Preservative: 0.05 % (v/v) Kathon CG

Reconstitution Method: Reconstitute by adding 0.5 ml distilled water.



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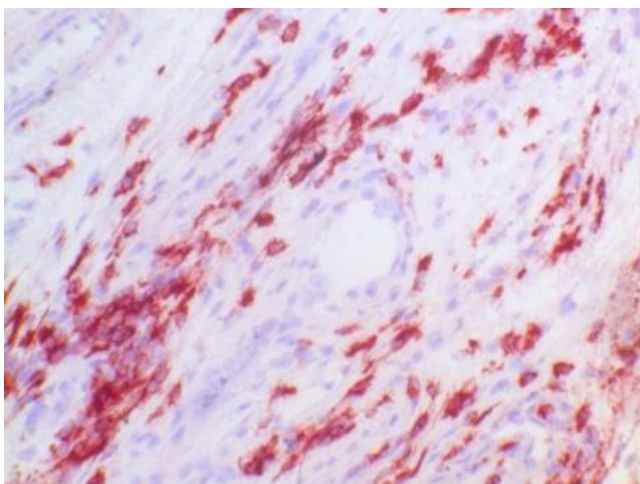
Purification:

Conjugation: Biotin

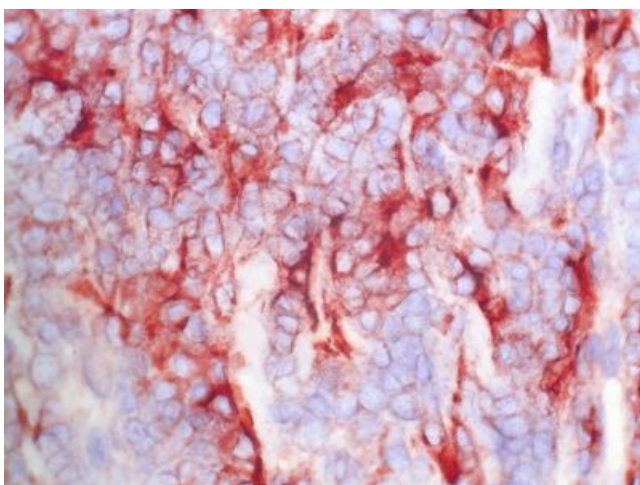
Storage: Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.

Background: Monoclonal antibody PM-2K, together with X-4 and X-14, forms a particular group of macrophage specific antibodies which were tested at the Vth Leukocyte Typing Workshop. The PM-2K antigen was initially suspected to function as a scavenger receptor. However, experiments with CHO cells expressing Macrophage Scavenger Receptor (MSR) AI or AII showed no reactivity with this antibody.

Synonyms: Macrophage marker

Product images:


Immunohistochemistry on frozen sections: Clone RM2K (Biotin) on Human tonsil.



Immunohistochemistry on frozen sections: Clone RM2K (Biotin) on Human tonsil.

	X-4	X-14	PM-2K
Lymph nodes	+	-	+
tingible body macrophages	+	-	+
Brain	+	-	+
microglial cells	+	-	-
Blood monocytes	+	-	-
24h culture	+	-	-

Comparison of Staining Patterns of X-4, X-14 and PM-2K on different cell types

+ = positive , + = weakly positive , - = negative