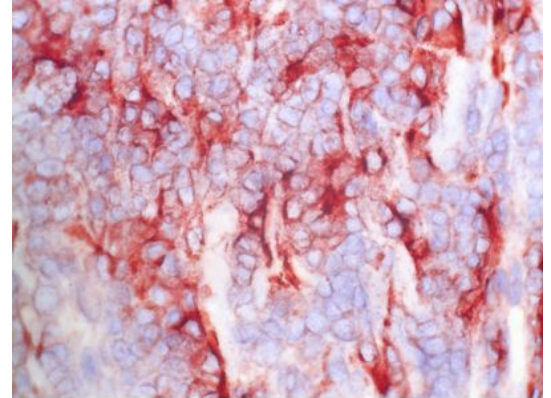


BM4037B**Monoclonal Antibody to Macrophages - Purified**

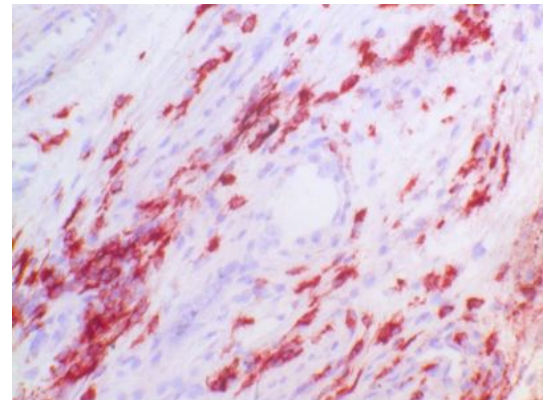
Alternate names:	Macrophage marker
Quantity:	0.1 mg
Background:	Monoclonal antibody PM-2K, together with X-4 and X-14, forms a particular group of macrophage specific antibodies which were tested at the Vth Leukocyte Typing Workshop. The PM-2K antigen was initially suspected to function as a scavenger receptor. However, experiments with CHO cells expressing Macrophage Scavenger Receptor (MSR) AI or AII showed no reactivity with this antibody.
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	PM-2K
Immunogen:	Cultured human peritoneal macrophages
Format:	State: Lyophilized affinity purified Ig fraction Purification: Buffer System: Phosphate buffered saline pH 7.2 (PBS) Preservatives: 0.05 % (v/v) Kathon CG Stabilizers: 5 mg/ml bovine serum albumin (BSA) Reconstitution: Reconstitute by adding 0.5 ml distilled water.
Applications:	Immunohistochemistry on frozen section: 0.2 mg/ml (1:1000). <i>Suggested positive control: Human tonsil.</i> Does not react on routinely processed paraffin sections. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
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.
Species Reactivity:	Tested: Human, Cat, Dog, Pig, Cow, and Monkey. Negative in Rabbit, Rat, Guinea pig, Gold hamster, Goat, and Horse.

Pictures:

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



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



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

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

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