

Product datasheet for **BM4032**

CD11b (ITGAM) Mouse Monoclonal Antibody [Clone ID: X-5]

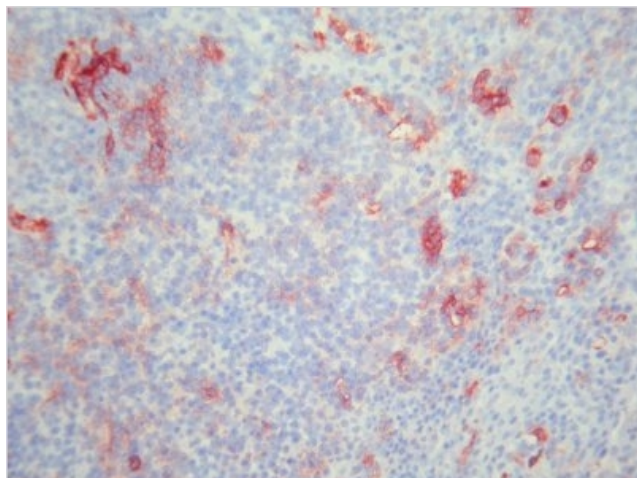
Product data:

Product Type:	Primary Antibodies
Clone Name:	X-5
Applications:	IHC
Recommended Dilution:	Immunohistochemistry on Frozen Sections: 1-2 µg/ml (1/100-1/200). Positive Control: Human tonsil.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human monocytes.
Specificity:	<p>This Monoclonal antibody X-5 recognizes a non-covalently bound alpha heterodimeric glycoprotein. It belongs to the beta-2 integrin supergene family of adhesion. The antigen is a receptor for C3bi, fibrinogen, coagulation factor X. Together with CD18, CD11b forms the MAC-1 molecular complex involved in the adhesion to endothelial cells, and the subsequent extravasation of neutrophils and monocytes.</p> <p>It recognizes Human Granulocytes, Monocytes (NK- cells).</p> <p>Antigen Distribution</p> <p>Isolated Cells: Weakly positive on granulocytes, positive on peritoneal macrophages, negative on lymphocytes. Positive on HL-60 cells , particularly after DMSO treatment.</p> <p>Tissue Sections: In lymph nodes, monoclonal antibody X-5 is positive on monocytes, macrophages and single cells both intrafollicularly and in surrounding blood vessels. Positive staining has been observed with the basal membrane of blood vessels and on sinus walls. Marginal zone macrophages, medulla and red pulp stain positive in the spleen as do cells in the T-cell region. In the thymus, medulla and trabecular macrophages are positive.</p>
Formulation:	PBS, pH 7.2 State: Purified State: Lyophilized purified IgG fraction Stabilizer: 5 mg/ml BSA Preservative: 0.09% Sodium Azide
Reconstitution Method:	Restore with 0.5ml distilled water.

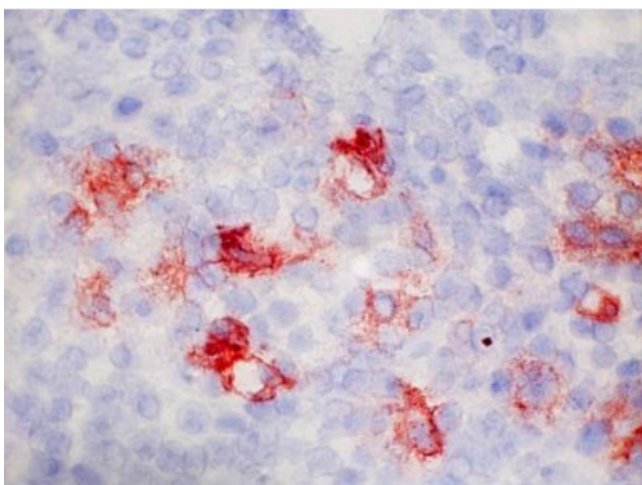


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Concentration:	0.2 mg/ml (after reconstitution)
Purification:	Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	integrin subunit alpha M
Database Link:	Entrez Gene 3684 Human P11215
Background:	CD11b is implicated in various adhesive interactions of monocytes, macrophages and granulocytes as well as in mediating the uptake of complement coated particles. It is identical to CR3, the receptor for the iC3b fragment of the third complement component. It probably recognizes the RGD peptide in C3b. CD11b is also a receptor for fibrinogen, factor X and ICAM1. It recognizes P1 and P2 peptides of fibrinogen gamma chain. The Mac1 CD11b antigen is present on macrophages, granulocytes, natural killer cells, blood monocytes. CD11b is expressed on 8% spleen cells, 44% bone marrow cells and less than 1% of thymocytes and is commonly used as a microglial marker in nervous tissue.
Synonyms:	ITGAM, CR3A, CR-3 alpha chain, Integrin alpha-M, MAC1

Product images:

CD11b antibody staining of Human Tonsil Frozen Section.



CD11b antibody staining of Human Tonsil Frozen Section.