BMA BIOMEDICALS

Biotinylated Monoclonal Antibody To Human CD11b

Complement C3bi Receptor, MAC-1

Monoclonal antibody X-5 recognizes a non-covalently bound alpha heterodimeric glycoprotein. It belongs to the ß-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.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product Number:	T-1041 (Lot 02PB0804)
Clone:	X-5
Host species, isotype:	Mouse IgG1
Quantity:	750µg
Format:	Affinity purified, biotinylated, lyophilized. Reconstitute by adding 0.5ml distilled water. This stock solution contains 1.5mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA) as a stabilizer and 0.01% (v/v) Kathon™ CG as a preservative.
Stability:	Original vial: 1 year at 4° - 8°C from date of purchase. Stock solution and aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles.
Applications:	Tested for immunohistochemistry (IHC). **Approximate working dilution for IHC:** Frozen sections: 7.5 - 30µg/ml (1:50 - 1:200) Paraffin sections: not tested Optimal dilutions should be determined by the end user Suggested positive control: Human tonsil Please see **www.bma.ch** for protocols and general information
Immunogen:	Human monocytes
Antigen, epitope:	The antigen is CD11b, the epitope has not been further characterized
Antigen distribution:	**Isolated cells:** Weakly positive on granulocytes, positive on peritoneal macrophages, negative on lymphocytes. Positive on HL-60 cells, particularly after DMSO treatment.

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	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.
Specificity:	**Human:** granulocytes, monocytes, (NK- cells).
	Other: not tested.

Selected references

Breard, J. et al.: J. Immunol. **124**, 1943, (1980).

Ault, K.A. & Springer, T.A.; J. Immunol. **126**, 359, (1981).

For in vitro research only. This product contains Kathon™ CG as a preservative.

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