



## Peninsula Laboratories, LLC

A Member of the Bachem Group

305 Old County Road, San Carlos, CA 94070

Tel: (800) 922-1516 • (650) 592-5392

Fax: (650) 595-4071

www.bachem.com

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### **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  $\beta$ -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.

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<b>Product Number:</b>	T-1041
<b>Clone:</b>	X-5
<b>Host species, isotype:</b>	Mouse IgG1
<b>Quantity:</b>	750 $\mu$ g
<b>Format:</b>	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 Kathon as a preservative.
<b>Stability:</b>	Original vial: 1 year at 4° - 8°C Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.
<b>Applications:</b>	Tested for immunohistochemistry (IHC). <b>Approximate working dilution for IHC:</b> Frozen sections: 7.5 - 30 $\mu$ g/ml (1:50 - 1:200) Paraffin sections: not tested Optimal dilutions should be determined by the end user. Suggested positive control: Human tonsil
<b>Immunogen:</b>	Human monocytes.
<b>Antigen, epitope:</b>	The antigen is CD11b, the epitope has not been further characterized.



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**Antigen distribution:**

**Isolated cells:** Weakly positive on granulocytes, positive on peritoneal macrophages, negative on lymphocytes. Positive on HL-60 cells , particularly after DMSO treatment.

**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.

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**Selected references**

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

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