



## 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 CDw93** **Plasma Leukocytes And Endothelial Cells**

Monoclonal antibody X-2 recognizes a 110kDa O-sialoglycoprotein on granulocytes, monocytes and endothelial cells. Upon differentiation of cultivated monocytes into macrophages, CDw93 ceases to be expressed on day 5-6, which makes it a very useful marker to differentiate those two cell populations.

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<b>Product Number:</b>	T-1037
<b>Clone:</b>	X-2
<b>Host species, isotype:</b>	Mouse IgG1
<b>Quantity:</b>	100µg
<b>Format:</b>	Affinity purified, biotinylated, lyophilized  Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.2mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 10mg/ml bovine serum albumin (BSA) as a stabilizer and 0.01% Thimerosal 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); has been described to work in FACS.  <b>Approximate working dilution for IHC:</b> Frozen sections: 0.5µg/ml (1:400) Paraffin sections: does not react on routinely processed paraffin sections.  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 has been assigned to the CDw93 cluster, the epitope has not been further characterized.



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### Antigen distribution:

**Isolated cells:** Positive with all granulocytes, with staining increasing transiently upon maturation. Antigen expression is increased by  $\text{TNF}\alpha$ , GM-CSF, (fMLP) treatment. No effect on superoxide production by binding to neutrophils has been noted. PMA stimulation causes down regulation of the antigen. Positive with monocytes following fMLP, TNF, GM-CSF treatment. Antigen expression decreases on cultured monocytes. Positive on AML cases with monocytic component. Positive on cell lines HL-60, Namalva, K562, THP-1, U937, negative on HMC-1 (human mast cell line).

**Tissue sections:** Monoclonal antibody X-2 stains epitheloid cells and Rosai-Dorfman cells and most endothelial cells in the synovial membrane of RA patients.

### Specificity:

**Human:** granulocytes, monocytes, endothelial cells (main cellular reactivity).

**Other:** not tested.

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### Selected references

SHAW, S. et al. Leucocyte Typing V: White Cell Differentiation Antigens, Oxford University Press (1994) Ed. Schlossmann, S. et al. Abstracts M016, M017, M020, M023, M031, M034, M037, M049, M060, M061, M062, M066, M081, M097, M111, M112, M127, M132, M133, M145, M151. (X-2 Workshop Codes = M48, BP261).

For in vitro research only. Caution: this product contains Thimerosal, a poisonous and hazardous substance.