



Peninsula Laboratories, LLC

A Member of the Bachem Group

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Monoclonal Antibody To Human CD14 Marker For The Endotoxin (LPS) Receptor

CD14 is a 53'000 - 55'000 Mr glycoprotein strongly expressed on the surface of monocytes and weakly on the surface of granulocytes. It is anchored to the surface by linkage to glycosyl phosphatidylinositol (GPI). CD14 functions as a receptor for endotoxin and is the major receptor involved in the lethal response to both endotoxin and Gram-negative bacteria. In addition to membrane CD14, soluble forms of CD14 can be detected in serum and tissue culture supernatants of cells transfected with CD14. Monoclonal antibody X-8 prevents the Lipopolysaccharide Binding Protein (LBP) independent activation of cells via soluble CD14 by blocking the binding of CD14.

Product Number:	T-1046
Clone:	X-8
Host species, isotype:	Mouse IgG2b
Quantity:	100µg
Format:	Affinity purified, 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.
Stability:	Original vial: 1 year at 4° - 8°C Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.
Applications:	Tested for immunohistochemistry (IHC); has been described to work in FACS. Approximate working dilution for IHC: Frozen sections: 2 - 4µg/ml (1:50 - 1:100) Paraffin sections: does not react on routinely processed paraffin sections. Optimal dilutions should be determined by the end user. Suggested positive control: Human placenta.
Immunogen:	Human monocytes.
Antigen, epitope:	The antigen is CD14, the receptor for LPS. The epitope has not been further characterized.



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Antigen distribution:

Isolated cells: Positive on monocytes and granulocytes, myeloid leukaemia and myeloid cell lines.

Tissue sections: Positive on histiocytes, Langerhans cells, follicular dendritic cells and high endothelial venules.

Specificity:

Human: monocytes, some populations of macrophages, granulocytes.

Other: not tested.

Selected references

CD14 Workshop in "Leucocyte Typing IV" (Vienna 1989). Oxford University Press, (W. Knapp, B. Doerken, W.R. Gilks, E.P. Riebar, R.E. Schmidt, H. Stein, & A.E.G.Kr. von dem Borne eds).

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