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Monoclonal Antibody To Human CD163

Haemoglobin-Haptoglobin Receptor, Scavenger Receptor

Monoclonal antibody Ki-M8 recognizes a membrane glycoprotein on human monocytes and macrophages which is expressed in intermediate and late inflammatory stages. CD163 is a scavenger receptor for the haemoglobin-haptoglobin complex, and is upregulated by glucocorticoids and IL-10. The extracellular portion of the receptor is regularly shed and can be found in the circulation (see also our product S-1015, sCD163 ELISA). An important function of CD163 seems to be in the adhesion of monocytes to activated endothelial cells. CD163-positive cells include skin histiocytes, Kupffer cells, spleen macrophages of the red pulp, and some thymus macrophages. The antigen is also found abundantly in human term placenta, and regularly in acute and chronic inflammatory lesions.

Product Number:	T-1012 (Lot 01PO9202)
Clone:	Ki-M8
Host species, isotype:	Mouse IgG1
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 0.02% sodium azide 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 and western blots. Approximate working dilution for IHC: Frozen sections: 2µg/ml (1:100) 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 alveolar macrophages.
Antigen, epitope:	The antigen is CD163, the epitope has not been further characterized.

Antigen distribution: **Isolated cells:** Monocytes in bone marrow and peripheral blood, macrophages. Ki-M8 is negative with other leucocytes.

Tissue sections: Ki-M8 detects phagocytic macrophages in most tissues. It is also positive with epithelial cells and malignant histiocytosis. Starry sky macrophages of lymphoids are negative.

Specificity: **Human:** monocytes and macrophages.

Other: not tested.

Selected references

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Parwaresch, M.R. et al.: M-CSF and M-CSF-Receptor Gene Expression in acute Myelomonocytic Leukemias. *Leukemia Res.*: 14, (1), 27 - 37 (1990).

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Eischen, A. et al.: Phenotypic characterization of human peritoneal and alveolar macrophages, and of human blood monocytes differentiated in the presence of GM-CSF or M-CSF. Fifth Annual Conference of the Upper Rhine Universities on the Macrophage, Strasbourg Sept. 4/5. Abstr. Page 22 (1991).

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