

Product datasheet for **BM4021**

CD163 Mouse Monoclonal Antibody [Clone ID: RM3/1]

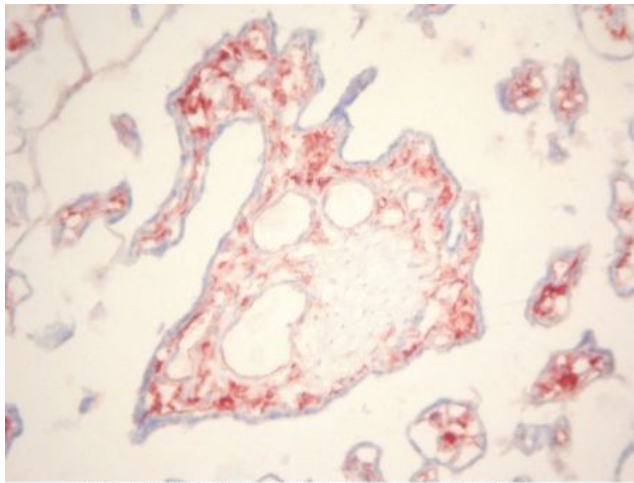
Product data:

Product Type:	Primary Antibodies
Clone Name:	RM3/1
Applications:	FC, IHC, WB
Recommended Dilution:	Immunohistochemistry on Frozen Sections: 4 µg/ml (1/100). Does not work in routinely processed paraffin sections. Has been described to work in FACS and Western blots . <i>Recommended Positive control:</i> Human placenta.
Reactivity:	Human, Monkey
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human monocytes, particularly after dexamethasone treatment or after 2-5 days in culture
Specificity:	This antibody is specific for CD163. Clone <i>RM 3/1</i> recognizes a membrane glycoprotein on monocytes and macrophages which is expressed in intermediate and late inflammatory stages. Does not react with lymphocytes, granulocytes or platelets. Positive staining can be observed in the skin (histiocytes), gut, Kupffer cells, few alveolar macrophages, a major population of macrophages in the placenta, varying degrees of macrophages in inflamed tissues, including tumorous tissue depending on the inflammatory stage. Red pulp, but not white pulp macrophages of the spleen, and cortical macrophages of the thymus are detected. Macrophages in the synovialis of patients with rheumatoid arthritis. In alveolar macrophages and in Kupffer cells a double staining can be observed with clone 25F9 which is not the case in other tissues.
Formulation:	Stock solutions contains PBS, pH 7.2, 10 mg/ml BSA as a stabilizer and 0.01% Thimerosal as a preservative State: Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore with 0.5 ml distilled water to a concentration of 0.4 mg/ml.
Concentration:	0.4 mg/ml (after reconstitution)



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Purification:	Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD163 molecule
Database Link:	Entrez Gene 9332 Human Q86VB7
Background:	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. 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.
Synonyms:	M130, Hemoglobin scavenger receptor, Macrophage marker

Product images:

CD163 antibody staining of Human Placenta Frozen Section.