

Product datasheet for **BM4106**

CD14 Mouse Monoclonal Antibody [Clone ID: Mab0211]

Product data:

Product Type:	Primary Antibodies
Clone Name:	Mab0211
Applications:	FC, IHC
Recommended Dilution:	Suitable for Immunohistochemistry (IHC) on frozen sections: 1 µg/ml (1:200) and Facs.
	Antigen Distribution:
	Isolated cells: Positive on granulocytes and monocytes, myeloid leukemias and myeloid cell lines.
	Tissue sections: Positive on histocytes, Langerhans cells, follicular dendritic cells and high endothelial venules.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Human monocytes
Specificity:	This antibody detects a single-chain surface membrane glycoprotein of 55kD molecular weight.
Formulation:	Phosphate buffered saline, pH 7.2 with 0.02% sodium azide as preservative and 1% BSA as stabilizer. State: Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore with 0.5 ml distilled water
Purification:	Affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody at 2-8°C for one month or (in aliquots) at -20°C for longer. Do not freeze working dilutions Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	CD14 molecule



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Database Link: [Entrez Gene 929 Human P08571](#)

Background: CD14 is a 53'000 - 55'000 Mr glycoprotein expressed strongly 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.

Synonyms: CD14

Note: Protocol: **Protocol with frozen, ice-cold acetone-fixed sections:**

The whole procedure is performed at room temperature

1. Wash in PBS
2. Block endogenous peroxidase
3. Wash in PBS
4. Block with 10% normal goat serum in PBS for 30min. in a humid chamber
5. Incubate with primary antibody (dilution see datasheet) for 1h in a humid chamber
6. Wash in PBS
7. Incubate with secondary antibody (peroxidase-conjugated goat anti mouse IgG+IgM (H+L) minimal-cross reaction to human) for 1h in a humid chamber
8. Wash in PBS
9. Incubate with AEC substrate (3-amino-9-ethylcarbazol) for 12min.
10. Wash in PBS
11. Counterstain with Mayer's hemalum For further information and details see technical information