

Product datasheet for **SM1718**

CD68 Mouse Monoclonal Antibody [Clone ID: 514H12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	514H12
Applications:	IF, IHC
Recommended Dilution:	Immunofluorescence. Immunohistochemistry on Frozen Sections. Immunohistochemistry on Paraffin Sections: 1/40-1/80. This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. 1mM EDTA pH 8.0 is recommended for this purpose. Recommended Positive Control Tissue: Tonsil.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Fusion protein corresponding to external domain of human CD68. Spleen cells from immunised mice were fused with cells of the mouse p3-NS1-Ag4-1 myeloma cell line.
Specificity:	This antibody recognizes the CD68 cell surface antigen, a 110kDa glycoprotein primarily expressed by macrophages and monocytes.
Formulation:	State: Supernatant State: Lyophilized Tissue Culture Supernatant Preservative: 0.09% Sodium Azide
Reconstitution Method:	Restore with 1 ml distilled water.
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:	CD68 molecule



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Database Link: [Entrez Gene 968 Human P34810](#)

Background: The CD68 antigen is a 37kD transmembrane protein that is post-translationally glycosylated to give a protein of 87-115kD. CD68 is specifically expressed by tissue macrophages, Langerhans cells and at low levels by dendritic cells. It could play a role in phagocytic activities of tissue macrophages, both in intracellular lysosomal metabolism and extracellular cell-cell and cell-pathogen interactions. It binds to tissue- and organ-specific lectins or selectins, allowing homing of macrophage subsets to particular sites. Rapid recirculation of CD68 from endosomes and lysosomes to the plasma membrane may allow macrophages to crawl over selectin bearing substrates or other cells.

Synonyms: Gp110, Macrosialin, Macrophage marker