

Product datasheet for **AM05899SU-N**

Macrophages / Monocytes Mouse Monoclonal Antibody [Clone ID: MR-1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MR-1
Applications:	FC, IHC
Recommended Dilution:	Immunohistochemistry on Frozen Sections: 1/10. Flow Cytometry: Use 10 µl Neat - 1/10 diluted antibody to label 10e6 cells in 100 µl (Membrane permeabilisation is required).
Reactivity:	Guinea Pig
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Guinea Pig lymph node stroma
Specificity:	This antibody recognizes a cytoplasmic component of Macrophages and most tissue Macrophages. It does not recognise cortical Macrophages of the thymus and microglial cells of the brain.
Formulation:	State: Liquid Tissue Culture Supernatant containing 5-10% Foetal Calf Serum with 0.09% Sodium Azide as preservative.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Should this product contain a precipitate we recommend microcentrifugation before use. Avoid cycles of freezing and thawing.
Stability:	Shelf life: One year from despatch.



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Background:

Monocyte and macrophage are white blood cells that roam the body tissues engulfing foreign organisms. A monocyte is a leukocyte, part of the human body's immune system that protects against blood-borne pathogens and moves quickly (aprox. 8-12 hours) to sites of infection in the tissues. Monocytes are usually identified in stained smears by their large bi-lobed nucleus.

Macrophages are cells within the tissues that originate from specific white blood cells called monocytes. Monocytes and macrophages are phagocytes, acting in both nonspecific defense (or innate immunity) as well as specific defense (or cell-mediated immunity) of vertebrate animals. Their role is to phagocytize (engulf and then digest) cellular debris and pathogens either as stationary or mobile cells, and to stimulate lymphocytes and other immune cells to respond to the pathogen.

Synonyms:

Macrophage marker, Monocyte marker