abcam

ab95574

PE Anti-Macrophage antibody [HIS36]

Anti-Macrophage antibody [HIS36] conjugated to PE - suitable for flow cytometry, and reacts with rat samples. Clone [HIS36] is a mouse monoclonal antibody cited in 7 publications.

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Key facts

Isotype	IgG2a
Host species	Mouse
Conjugation	PE
Excitation/Emission	Ex: 480;565nm, Em: 578nm
Storage buffer	pH: 7.2 Preservative: 0.09% Sodium azide Constituents: PBS, 0.87% Sodium chloride
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing Macrophage protein. The exact immunogen used to generate this antibody is proprietary information.
Clone number	HIS36
Purification technique	Affinity purification Protein G
Light chain type	kappa
Concentration	0.2 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Rat
Dilution info	0.25-0.5 µg for 10^5-10^8 Cells
Notes	A final volume of 100 µL is recommended for staining the cell sample. ab91363 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

Target data

See full target information Macrophage

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Notes

The HIS36 monoclonal antibody reacts with a molecule expressed on the surface of Rat macrophages. The antigen recognized by HIS36 is an ED2-like antigen expressed by thioglycolate elicited peritoneal cells and tissue macrophages. ab95574 is used as a marker for Rat tissue macrophages.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Macrophages also known as histiocytes are immune cells involved in many functions in the body. They have a mass that varies depending on their stage of activation and location. These cells are primarily expressed in tissues and organs such as the liver spleen lungs lymph nodes and bone marrow. They belong to the mononuclear phagocyte system and are key players in antigen presentation and phagocytosis. These cells can be visualized using macrophage immunohistochemistry (IHC) techniques and imaged with macrophage flow cytometry. Macrophage staining and macrophage immunofluorescence staining allow researchers to assess their presence and state.

Biological function summary	These versatile cells maintain homeostasis and play roles in tissue repair and inflammation. They are part of protective mechanisms of body engaging in destruction of pathogens and mediation of immune responses. Macrophages can release cytokines chemokines and other molecules that influence immune cell proliferation and differentiation. In mouse models macrophage markers like BM8 help to identify their populations and quantify their roles in various experiments.
Pathways	These immune cells participate in both the innate and adaptive immune responses. They influence the NF-kB and MAPK pathways both of which play significant roles in stress and inflammatory responses. Macrophages interact with proteins like Toll-like receptors (TLRs) to activate downstream signaling that leads to altered gene expression necessary for immune response. They serve as critical components in pathways that facilitate communication between different cell types in immune system.
Associated diseases and disorders	Macrophages have strong links with chronic inflammation and autoimmune diseases such as rheumatoid arthritis. They contribute to the pathogenesis of these conditions by secreting pro-inflammatory cytokines and other mediators. A connection exists between macrophages and the dysfunction of various proteins involved in inflammatory diseases such as TNF-alpha and interleukin-1. Alterations in macrophage activation and signaling could exacerbate disease progression highlighting their importance in therapeutic strategies aimed at modulating immune responses.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

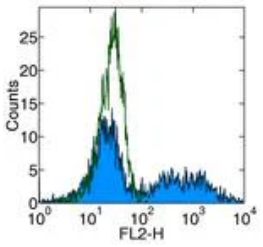
We do not recommend this combination. It is not covered by our product promise.

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1 product image



Flow Cytometry - PE Anti-Macrophage antibody [HIS36] (ab95574)

Macrophage Flow Cytometry staining using mouse Anti-Macrophage antibody

ab95574, at 0.25 µg per test, staining Rat thioglycolate induced peritoneal exudate cells (PECs) by flow cytometry (filled histogram). The open histogram shows staining with 0.25 µg of Mouse IgG2a kappa Isotype Control PE. Total viable cells were used for analysis.

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