

Anti-Macrophages + Monocytes antibody [ER-HR3] ab59697

2 References

Overview

Product name	Anti-Macrophages + Monocytes antibody [ER-HR3]
Description	Rat monoclonal [ER-HR3] to Macrophages + Monocytes
Host species	Rat
Specificity	This antibody is reactive to the majority of mouse monocytes and a subset of mature resident macrophages, especially those located in hemopoietic organs. Whereas all other leukocytes are negative, up to 70% of circulating monocytes stain positive with this antibody. About 30% of bone marrow cells express the antigen. Other positive macrophages can be found in the splenic red pulp, in the mesenteric lymphoid paracortex, interfollicular areas of Peyer's patches and bone marrow. Few positive cells are observed in the thymic cortex and the connective tissues of the gastro-intestinal tract, the dermis and the renal medulla. Epidermal Langerhans cells also express the antigen.
Tested applications	Suitable for: Flow Cyt, IHC-Fr, IHC-P
Species reactivity	Reacts with: Mouse
Immunogen	Tissue, cells or virus corresponding to Macrophages + Monocytes.
General notes	

This antibody can be used to identify and localize a very distinct macrophage subpopulation found in various mouse organs and its distribution pattern is unique compared to that from other macrophage-specific antibodies. The antibody is especially suitable for ontogenic studies because ER-HR3 positive macrophages are closely related to hemopoietic islands, especially at erythropoietic sites.

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Sodium azide Constituents: PBS, 0.1% BSA
Purity	Protein G purified
Purification notes	Purified antibody in 0.2µm filtered solution.
Primary antibody notes	This antibody can be used to identify and localize a very distinct macrophage subpopulation found in various mouse organs and its distribution pattern is unique compared to that from other macrophage-specific antibodies. The antibody is especially suitable for ontogenic studies because ER-HR3 positive macrophages are closely related to hemopoietic islands, especially at erythropoietic sites.
Clonality	Monoclonal
Clone number	ER-HR3
Isotype	IgG2c

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab59697 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration.

Target

Relevance Monocytes are produced by the bone marrow from haematopoietic stem cell precursors called monoblasts. Monocytes circulate in the bloodstream for about one to three days and then typically move into tissues throughout the body. They consist of between 3 to 8 percent of the leukocytes in the blood. In the tissues monocytes mature into different types of macrophages at different anatomical locations. Macrophages are a type of white blood cell derived from monocytes that engulf invading antigenic molecules, viruses, and microorganisms and then display fragments of the antigen to activate helper T cells; ultimately stimulating the production of antibodies against the antigen.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery

- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors