abcam

ab63860

Anti-Myeloid Precursor Cells antibody [ER-MP58]

Key facts

Isotype	IgG2a
Host species	Rat
Storage buffer	pH: 7.4 Preservative: 0.09% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing Myeloid Precursor Cells protein. The exact immunogen used to generate this antibody is proprietary information.
Clone number	ER-MP58
Purification technique	Affinity purification Protein G
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Expected

Species	Mouse
Dilution info	-
Notes	Use 10µl of the suggested working dilution to label 10^6 cells in 100µl

IHC-Fr

Expected

Species	Mouse
Dilution info	1/25 - 1/100
Notes	-

IP

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

ICC/IF

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information Myeloid Precursor Cells

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot

Supplementary info

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

Activity summary	Myeloid precursor cells also known as myeloid progenitors are important cells in hematopoiesis the process through which blood cells form. These cells have a role in early stages of differentiation that lead to various myeloid lineages like granulocytes monocytes erythrocytes and platelets. Myeloid precursors are found primarily in the bone marrow which is their site of origin and where they proliferate and differentiate. The molecular mass of these cells is not typically defined because they represent a cell population rather than a single molecular entity.
Biological function summary	Myeloid precursor cells are involved in generating the immune system's innate components. They initiate the formation of cells that function in first-line defense against pathogens. While myeloid precursors are not part of a specific protein complex they are integrally related to their progeny which perform various biological roles ranging from phagocytosis and antigen presentation to oxygen transport. These cells carry important markers and signaling pathways that guide their differentiation and function.
Pathways	Myeloid precursor cells participate in critical signaling networks that regulate hematopoiesis such as the JAK-STAT and MAPK pathways. These pathways influence cell survival proliferation and differentiation decisions. Myeloid precursors interact with key proteins such as colony-stimulating factors (CSFs) and interleukins influencing their trajectory into specific myeloid cells. Understanding these pathways aids in deciphering the complex patterns of lineage commitment and differentiation.
Associated diseases and disorders	Myeloid precursor cells have significant implications in conditions like leukemia and myelodysplastic syndromes. These cells may undergo malignant transformations leading to uncontrolled proliferation as seen in acute myeloid leukemia (AML). Aberrant signaling through pathways involving proteins such as FLT3 and RUNX1 can result in these conditions. Research into how myeloid precursors contribute to these disorders provides insights into potential therapeutic targets for treating hematological malignancies.

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.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

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