

AM31836RP-N

Monoclonal Antibody to Myeloid Lineage - PE

Quantity:

50 µg

Background:

Hematopoietic stem cells (HSC) are the precursor cells found in the bone marrow which give rise to all the blood cell types of both the Myeloid and lymphoid lineages, which include monocytes and macrophages, neutrophils, basophils, eosinophils, T cells, B cells, NK cells, microglia, erythrocytes, megakaryocytes and dendritic cells. During the process of hematopoiesis, Myeloid lineage cells originate from the bone marrow, while Lymphoid lineage cells originate from the lymph tissue. Blimp-1 is a key regulator of the differentiation of the separate hematopoietic myeloid and lymphoid lineages.

The distinction between myeloid and lymphoid lineages is essential to diagnose and treat certain cancers. Myeloid lineage cells induce inflammatory cytokine production upon activation by Kaposi's sarcoma-associated herpesvirus OX2 glycoprotein. At the stage of myelocytes, Myeloid lineage cells express a substantial number of IL-8 receptor homologs.

Host / Isotype:

Mouse / IgG1

Recommended Isotype Controls:

SM20R (for use in rat samples)

Clone:

OX-82

Immunogen:

Anemic Rat bone marrow.

Format:

State: Liquid purified IgG fraction.

Purification: Protein G Chromatography of Ascites fluid.

Buffer System: PBS containing 0.02% Sodium Azide as preservative and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

Label: PE

Applications:

Flow Cytometry.

This clone OX-82 has been reported for use in **Western Blotting** and **Immunohistochemistry on Frozen Sections** (Ref. 2).

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This Myeloid Lineage monoclonal antibody recognizes a 35 kDa antigen found on myeloid cells and stromal elements from a variety of tissues in the adult Rat.

Species Reactivity:

Tested: Rat.

Storage:

Store the antibody undiluted at 2-8°C.

DO NOT FREEZE!

This product is photosensitive and should be protected from light.

Shelf life: one year from despatch.

General Readings:

1. Crook K, Hunt SV. Enrichment of early fetal-liver hemopoietic stem cells of the rat using monoclonal antibodies against the transferrin receptor, Thy-1, and MRC-OX82. *Dev Immunol.* 1996;4(4):235-46. PubMed PMID: 8924759.

2. Hoffmann JC, Herklotz C, Zeitz M, Bayer B, Zeidler H, Westermann J. Effects of the

anti-CD2 mAb OX34 on in vivo proliferation. Ann N Y Acad Sci. 1998 Nov 17;859:216-8.
PubMed PMID: 9928391.