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Product datasheet for AM31836PU-N

Myeloid Lineage Mouse Monoclonal Antibody [Clone ID: OX-82]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OX-82
Applications:	FC, IHC, WB
Recommended Dilution:	Flow Cytometry (See Protocols). This clone OX-82 has been reported for use in Western Blotting and Immunohistochemistry on Frozen Sections (Ref. 2).
Reactivity:	Rat
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Anemic Rat bone marrow.
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.
Formulation:	PBS containing 0.02% Sodium Azide as preservative. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Protein G Chromatography of Ascites fluid.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in alqiuots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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	Myeloid Lineage Mouse Monoclonal Antibody [Clone ID: OX-82] – AM31836PU-N
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.

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Note:

Protocol: Flow Cytometry Analysis:

Method:

1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with Lympholyte®-Rat cell separation medium.

2. Wash 2 times.

3. Resuspend the cells to a concentration of 2x10e7 cells/ml in media A. Add 50 μ l of this suspension to each tube (each tube will then contain 1x10e6 cells, representing 1 test).

4. To each tube, add 0.1 µg of AM31836PU-N.

5. Vortex the tubes to ensure thorough mixing of antibody and cells.

6. Incubate the tubes for 30 minutes at 4°C.

7. Wash 2 times at 4°C.

8. Add 100 µl of secondary antibody FITC Goat anti-Mouse IgG (H+L)) at 1:500 dilution.

9. Incubate the tubes at 4°C for 30-60 minutes.

(It is recommended that the tubes are protected from light since most fluorochromes are light sensitive).

10. Wash 2 times at 4°C in media B.

11. Resuspend the cell pellet in 50 μl ice cold media B.

12. Transfer to suitable tubes for flow cytometric analysis containing 15 μ l of propidium iodide at 0.5 mg/ml in PBS. This stains dead cells by intercalating in DNA.

Media:

A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 μ l of 2M sodium azide in 100 mls).

B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 μ l of 2M sodium azide in 100 mls).

<u>Results:</u>

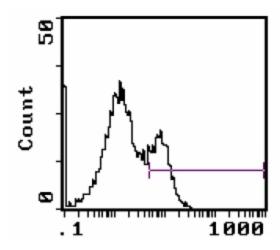
Tissue Distribution By Flow Cytometry Analysis:

Rat Strain: Wistar Cell Concentration: 1x10e6 cells per test Antibody Concentration Used: 0.1 ug /10e6 cells Isotypic Control: Mouse IgG1

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Product images:



Cell Source: Bone Marrow Percentage of cells stained above control: 21.5%

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