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Product datasheet for AM31836RP-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.** This clone OX-82 has been reported for use in**Western Blotting** and **Immunohistochemistry on Frozen Sections** (Ref. 2).
Reactivity:	Rat
Host:	Mouse
Isotype:	IgG1
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 and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. Label: PE State: Liquid purified IgG fraction.
Purification:	Protein G Chromatography of Ascites fluid.
Conjugation:	PE
Storage:	Store the antibody undiluted at 2-8°C. **DO NOT FREEZE!** This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.

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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.