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Mouse Anti-Human EPO Monoclonal Antibody Datasheet

Product Name: mAb anti-Human EPO

Clone No.: 85

Catalogue No.: MO-C40047A

Quantity: 0.5 mg/vial

Description: Mouse monoclonal antibody to human erythropoietin (EPO)

Purification: Protein G affinity purified

Product Type: Primary antibody

Target Protein: Human EPO

Immunogen: Purified CHO cell-expressed recombinant human EPO

Fusion Myeloma: Sp2/0-Ag14

Specificity: The selected monoclonal antibody is specifically reactive to human EPO.

Species Reactivity: Human, others not tested

Cross-reactivity: Does not cross react with other human cytokines tested such as IL-8, IL-16, IL-7, MCP-1, TNF- β , GM-CSF, M-CSF, IL-1 β , bFGF, and human serum albumin or bovine serum albumin.

Host / Isotype: Mouse, IgG1 Kappa

Formulation: Lyophilized from a solution in 0.01M PBS, pH 7.2.

Reconstitution: Double distilled water is recommended to reconstitute the antibody.

Research Area: Hematology

Storage: Store at -20°C

Background: Erythropoietin (EPO), also known as hematopoietin is a glycoprotein cytokine that regulates the red blood cell production from the precursor cells in

bone marrow. In fetal and perinatal period, EPO is mainly produced by the perisinusoidal cells in liver. In adults, majority of EPO is produced in the interstitial fibroblasts in kidney. EPO is necessary for red blood cell production, also stimulates angiogenesis and proliferation of smooth muscle cells. Recombinant EPO (rEPO) has been applied for treatment of anaemia. And the investigation into its neuronal protection effect in hypoxic conditions (stroke, myocardial infarction etc.) is ongoing. Some individuals use rEPO to enhance performance in sports.

Applications: ELISA

Western blotting



Detect EPO antigen (100ng/well) using mouse anti-human EPO antibody (clone 85) at 1:1000 dilution (1 μ g/mL).

References: Woodburn et al. [Hematide is immunologically distinct from erythropoietin and corrects anemia induced by antierythropoietin antibodies in a rat pure red cell aplasia model.](#) Exp. Hematol. 2007 Aug; 35(8):1201-8.

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