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Anti-Erythropoietin (EPO) Antibody

Mouse Monoclonal Antibody
Catalog # AH13200

Product Information

Application	IHC-P, IF, FC
Primary Accession	P01588
Other Accession	2303
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG
Clone Names	EPO/1367
Calculated MW	21307

Additional Information

Gene ID	2056
Other Names	EP; EPO alpha; EPO; Epoetin; Erythropoietin; MVCD2
Application Note	Flow Cytometry (0.5-1ug/million cells); ,Immunofluorescence (1-2ug/ml); ,Immunohistology (Formalin-fixed) (4-8ug/ml for 30 min at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.
Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	Anti-Erythropoietin (EPO) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	EPO
Function	Hormone involved in the regulation of erythrocyte proliferation and differentiation and the maintenance of a physiological level of circulating erythrocyte mass (PubMed:28283061). Binds to EPOR leading to EPOR dimerization and JAK2 activation thereby activating specific downstream effectors, including STAT1 and STAT3 (PubMed:9774108).

Cellular Location	Secreted.
Tissue Location	Produced by kidney or liver of adult mammals and by liver of fetal or neonatal mammals.

Background

Recognizes a protein of about 37kDa, which is identified as Erythropoietin (EPO). Erythropoietin is a secreted, glycosylated cytokine hormone composed of four alpha helical bundles. It is the primary factor responsible for regulating erythropoiesis during steady-state conditions and in response to blood loss and hemorrhage in the adult organism. Erythropoietin is synthesized by the kidney and stimulates the proliferation and maturation of bone marrow erythroid precursor cells. The protein is found in the plasma and regulates red cell production by promoting erythroid differentiation and initiating hemoglobin synthesis.