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EPO Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1446a

Product Information

Application	WB, ICC, E
Primary Accession	P01588
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	4F11
Isotype	IgG1
Calculated MW	21307
Description	Human erythropoietin is member of the EPO/TPO family and encodes a secreted, glycosylated cytokine hormone composed of four alpha helical bundles. The protein is found in the plasma and regulates red cell production by promoting erythroid differentiation and initiating hemoglobin synthesis. This protein also has neuroprotective activity against a variety of potential brain injuries and antiapoptotic functions in several tissue types. It is produced by kidney or liver of adult mammals and by liver of fetal or neonatal mammals.Tissue specificity: Produced by kidney or liver of adult mammals and by liver of fetal or neonatal mammals.
Immunogen	Purified recombinant fragment of human EPO expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	2056
Other Names	Erythropoietin, Epoetin, EPO
Dilution	WB~~1/500 - 1/2000 ICC~~N/A E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	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.

References

1. J Negat Results Biomed. 2008 Nov 13;7:9. 2. J Biol Chem. 2009 Feb 13;284(7):4567-81.

Images

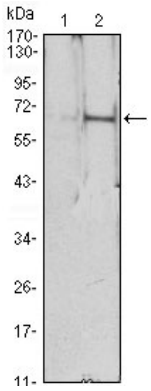


Figure 1: Western blot analysis using EPO mAb against HEK293 (1) and EPO(AA: 28-193)-hIgGFc transfected HEK293 (2) cell lysate.

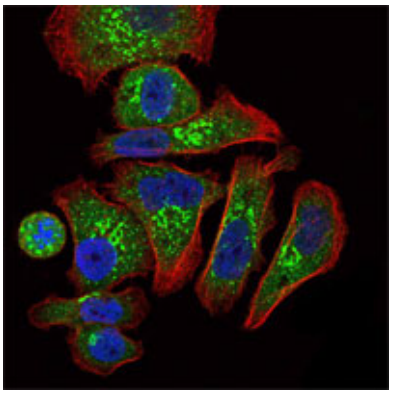


Figure 2: Immunofluorescence analysis of GC7901 cells using EPO mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.