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EPO Antibody (monoclonal) (M01)

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AT1930a

Product Information

Application	WB
Primary Accession	P01588
Other Accession	NP_000790
Reactivity	Human
Isotype	IgG2a Kappa
Clone Names	4G7
Calculated MW	21307

Additional Information

Gene ID	2056
Other Names	Erythropoietin, Epoetin, EPO
Target/Specificity	EPO (NP_000790, 28 a.a. ~ 193 a.a) recombinant protein.
Dilution	WB~~1:500~1000
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	EPO Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

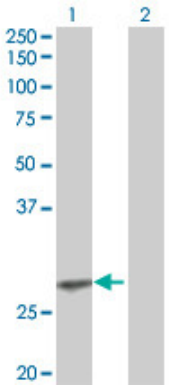
This gene is a member of the EPO/TPO family and encodes a secreted, glycosylated cytokine composed of four alpha helical bundles. The protein is found in the plasma and regulates red cell production by promoting erythroid differentiation and initiating hemoglobin synthesis. This protein also has neuroprotective activity against a variety of potential brain injuries and antiapoptotic functions in several tissue types.

References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.Erythropoietin and vascular endothelial growth factor as risk markers for severe hypoglycaemia in type 1 diabetes. Kristensen PL, et al. Eur J Endocrinol, 2010 Sep. PMID 20566589.Erythropoietin activates mitochondrial biogenesis and couples red cell mass to mitochondrial

mass in the heart. Carraway MS, et al. Circ Res, 2010 Jun 11. PMID 20395592.Erythropoietin-induced activation of the JAK2/STAT5, PI3K/Akt, and Ras/ERK pathways promotes malignant cell behavior in a modified breast cancer cell line. Shi Z, et al. Mol Cancer Res, 2010 Apr. PMID 20353997.New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. Genes Immun, 2010 Apr. PMID 20237496.

Images



Western Blot analysis of EPO expression in transfected 293T cell line by EPO monoclonal antibody (M01), clone 4G7.

Lane 1: EPO transfected lysate(21.3 KDa).
Lane 2: Non-transfected lysate.

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