

# EPO Antibody (monoclonal) (M01)

Purified Mouse Monoclonal Antibody (Mab)

Catalog # AT1930a

## Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">P01588</a>
<b>Other Accession</b>	<a href="#">NP_000790</a>
<b>Reactivity</b>	Human
<b>Isotype</b>	IgG2a Kappa
<b>Clone Names</b>	4G7
<b>Calculated MW</b>	21307

## Additional Information

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

## Background

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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

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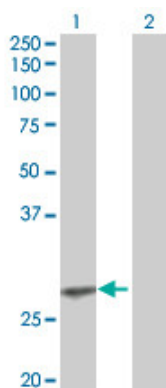
Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086. Erythropoietin and vascular endothelial growth factor as risk 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

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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'.