

# Human Erythropoietin/EPO antibody

Catalog Number: ATGA0512

## PRODUCT INFORMATION

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**Catalog number**

ATGA0512

**Clone No.**

AT1C12

**Product type**

Monoclonal Antibody

**UnitProt No.**

P01588

**NCBI Accession No.**

NP\_000790

**Alternative Names**

EPO, EP, MVCD2

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human Erythropoietin (28-193aa) purified from insect cell

**Isotype**

IgG1 kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB

**Usage**

The antibody has been tested by ELISA and Western blot to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

**Storage**

# Human Erythropoietin/EPO antibody

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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

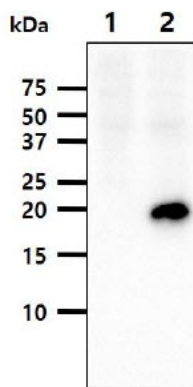
EPO, also known as erythropoietin, is a glycoprotein hormone in the type I cytokine family and is related to thrombopoietin. Its three N-glycosylation sites, four alpha helices, and N- to C-terminal disulfide bond are conserved across species. It is primarily produced in the kidney by a population of fibroblast-like cortical interstitial cells adjacent to the proximal tubules. This protein can be found in the plasma and regulates red cell production by promoting erythroid differentiation and initiating hemoglobin synthesis. It also has neuroprotective activity against a variety of potential brain injuries and anti-apoptotic functions in several tissue types.

### General References

Koury, M.J., et al. (2005) *Exp. Hematol.* 33:1263.  
Jelkmann W., et al. (2007) *Eur J Haematol.* 78:183-205.

## DATA

### Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human EPO antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: 293T cell lysate

Lane 2.: EPO transfected 293T cell lysate