

For Research Use Only

# EPO/Erythropoietin Polyclonal antibody

Catalog Number: 17908-1-AP

Featured Product

5 Publications



## Basic Information

**Catalog Number:**

17908-1-AP

**Size:**

650 ug/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG12302

**GenBank Accession Number:**

BC093628

**GeneID (NCBI):**

2056

**UNIPROT ID:**

P01588

**Full Name:**

erythropoietin

**Calculated MW:**

193 aa, 21 kDa

**Observed MW:**

37 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:200-1:1000

IHC 1:50-1:500

## Applications

**Tested Applications:**

WB, IHC, ELISA

**Cited Applications:**

WB, IHC

**Species Specificity:**

human, rat

**Cited Species:**

human, rat, canine

**Positive Controls:**

WB : HEK-293 cells,

IHC : rat kidney tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Erythropoietin (Epo) is a member of the EPO/TPO family and encodes a secreted, glycosylated cytokine composed of four alpha helical bundles. Erythropoietin (Epo) is a 166 amino acids protein containing three N-glycosylation sites (Asn-24, Asn-38, and Asn-83) and 1 O-glycosylation site (Ser-126) and involved in the regulation of the level of red blood cells. The protein is found in the plasma and regulates red cell production by promoting erythroid differentiation and initiating hemoglobin synthesis. Its effect is realized by binding erythropoietin receptor (EpoR) expressed on erythroid progenitor cells. EpoR, is a glycoprotein expressed on megakaryocytes, erythroid progenitors and endothelial cells. Epo also has neuroprotective activity against a variety of potential brain injuries and antiapoptotic functions in several tissue types.

## Notable Publications

Author	Pubmed ID	Journal	Application
Changjing Huang	34899826	Front Genet	IHC
Xing Chen	38853186	Int J Clin Oncol	WB
Kaori Ide	38383003	J Vet Med Sci	IHC

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

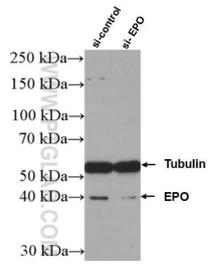
T: 4006900926

E: Proteintech-CN@ptglab.com

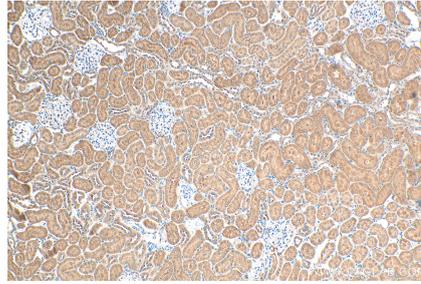
W: ptgcn.com

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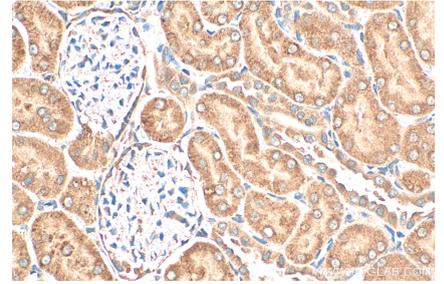
## Selected Validation Data



WB result of EPO/Erythropoietin antibody (17908-1-AP; 1:300; incubated at room temperature for 1.5 hours) with sh-Control and sh-EPO transfected HEK-293 cells.



Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 17908-1-AP (EPO/Erythropoietin antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 17908-1-AP (EPO/Erythropoietin antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).