

## Erythropoietin Antibody (RQ4352)

Catalog No.	Formulation	Size
RQ4352	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Mouse
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
<b>UniProt</b>	P01588
<b>Applications</b>	Western Blot : 0.5-1ug/ml
<b>Limitations</b>	This Erythropoietin antibody is available for research use only.

kDa  
72-  
55-  
43-  
34-  
26-  
  
17-  
  
10-

Western blot testing of mouse small intestine lysate with Erythropoietin antibody at 0.5ug/ml. Predicted molecular weight: 18-34 kDa depending on glycosylation level.

## Description

The EPO gene encodes a secreted, glycosylated cytokine composed of four alpha helical bundles. The encoded protein is mainly synthesized in the kidney, secreted into the blood plasma, and binds to the erythropoietin receptor to promote red blood cell production, or erythropoiesis, in the bone marrow. Expression of this gene is upregulated under hypoxic conditions, in turn leading to increased erythropoiesis and enhanced oxygen-carrying capacity of the blood. Expression of this gene has also been observed in brain and in the eye, and elevated expression levels have been observed in diabetic retinopathy and ocular hypertension. Recombinant forms of the encoded protein exhibit neuroprotective activity against a variety of potential brain injuries, as well as antiapoptotic functions in several tissue types, and have been used in the treatment of anemia and to enhance the efficacy of cancer therapies.

## Application Notes

Optimal dilution of the Erythropoietin antibody should be determined by the researcher.

## Immunogen

A recombinant mouse protein corresponding to amino acids D34-R192 was used as the immunogen for the Erythropoietin antibody.

## Storage

After reconstitution, the Erythropoietin antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.