Erythropoietin Antibody (RQ4352)

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

Bulk quote request

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



Erythropoietin Antibody Intestine WB. 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

Erythropoietin Antibody detects EPO, 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.

For detection of erythropoietin (EPO) as a hypoxia response hormone across tissues and conditions, see our EPO antibody.

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.

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