

Datasheet for ABIN5708355
anti-EPO antibody



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Overview

Quantity:	100 µg
Target:	EPO
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EPO antibody is un-conjugated
Application:	Western Blotting (WB), ELISA (Capture)

Product Details

Immunogen:	A recombinant mouse protein corresponding to amino acids D34-R192 was used as the immunogen for the Erythropoietin antibody.
Isotype:	IgG
Purification:	Antigen affinity purified

Target Details

Target:	EPO
Alternative Name:	Erythropoietin (EPO Products)
Target Type:	Hormone
Background:	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

Target Details

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.

UniProt:	P01588
Pathways:	JAK-STAT Signaling , Hormone Activity , Negative Regulation of intrinsic apoptotic Signaling , Negative Regulation of Transporter Activity

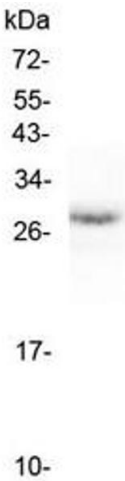
Application Details

Application Notes:	Optimal dilution of the Erythropoietin antibody should be determined by the researcher.\. Western blot: 0.5-1 µg/mL,ELISA: 0.1-0.5 µg/mL (mouse protein tested)
Restrictions:	For Research Use only

Handling

Buffer:	0.5 mg/mL if reconstituted with 0.2 mL sterile DI water
Storage:	-20 °C
Storage Comment:	After reconstitution, the Erythropoietin antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

Images



Western Blotting

Image 1. 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.