Datasheet for ABIN3042813

anti-EPO antibody (AA 1-166)

2 Images

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Overview

Quantity:	100 µg
Target:	EPO
Binding Specificity:	AA 1-166
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EPO antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-EPO/Erythropoietin Antibody Picoband®
Immunogen:	E. coli-derived human EPO recombinant protein (Position: M1-R166).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-EPO/Erythropoietin Antibody (ABIN3042813). Tested in ELISA, IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	EPO
Alternative Name:	EPO (EPO Products)
Target Type:	Hormone
Background:	Synonyms: Erythropoietin,Epoetin,EPO, Tissue Specificity: Produced by kidney or liver of adult mammals and by liver of fetal or neonatal mammals. Background: EPO, Erythropoietin, is an acidic glycoprotein hormone with a molecular mass of 34 kD. It is a cytokine for erythrocyte (red blood cell) precursors in the bone marrow. This gene is mapped to 7q22.1. It is produced by interstitial fibroblasts in the kidney in close association with peritubular capillary and tubular epithelial cells. It is also produced in perisinusoidal cells in the liver. While liver production predominates in the fetal and perinatal period, renal production is predominant during adulthood. As the prime regulator of red cell production, its major functions are to promote erythroid differentiation and to initiate hemoglobin synthesis. It also has other known biological functions. For example, erythropoietin plays an important role in the brain's response to neuronal injury. EPO is also involved in the wound healing process. Sequence Similarities: Belongs to the EPO/TPO family.
Molecular Weight:	26 kDa
UniProt:	P01588
Pathways:	JAK-STAT Signaling, Hormone Activity, Negative Regulation of intrinsic apoptotic Signaling, Negative Regulation of Transporter Activity

Application Details

Application Notes:	Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human ELISA, 0.1-0.5 µg/mL, - Western blot, 0.1-0.5 µg/mL, Human 1. Brines, M. L., Ghezzi, P., Keenan, S., Agnello, D., de Lanerolle, N. C., Cerami, C., Itri, L. M., Cerami, A.Erythropoietin crosses the blood-brain barrier to protect against experimental brain injury.Proc. Nat. Acad. Sci. 97: 10526-10531, 2000. 2. Casals-Pascual, C., Idro, R., Gicheru, N., Gwer, S., Kitsao, B., Gitau, E., Mwakesi, R., Roberts, D. J., Newton, C. R. J. C.High levels of erythropoietin are associated with protection against neurological sequelae in African children with cerebral malaria.Proc. Nat. Acad. Sci. 105: 2634-2639, 2008. 3. Celik, M., Gokmen, N., Erbayraktar, S., Akhisaroglu, M., Konakc, S., Ulukus, C., Genc, S., Genc, K., Sagiroglu, E., Cerami, A., Brines, M.Erythropoietin prevents motor neuron apoptosis and neurologic disability in

Application Details

	experimental spinal cord ischemic injury.Proc. Nat. Acad. Sci. 99: 2258-2263, 2002.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

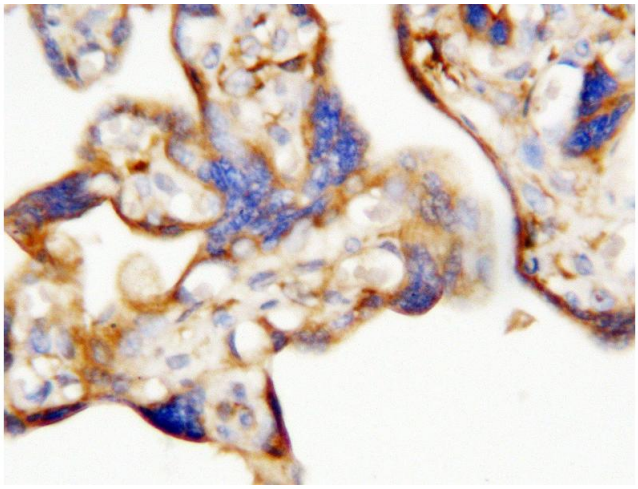
Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide. Carrier free (No BSA)
Preservative:	Sodium azide, Without preservative
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

Images

Western Blotting

Image 1. Anti-human EPO antibody, Western blotting Lane 1: Recombinant human EPO Protein 10ng Lane 2: Recombinant human EPO Protein 5ng Lane 3: Recombinant human EPO Protein 2



Immunohistochemistry

Image 2. Anti-human EPO antibody, IHC(P) IHC(P): Human Placenta Tissue

