Datasheet for ABIN3042813

anti-EPO antibody (AA 1-166)

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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 (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Erythropoietin(EPO) detection. Tested with WB, IHC-P, ELISA in Human.
Immunogen:	E. coli-derived human EPO recombinant protein(Position: A1-R166).
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Erythropoietin(EPO) detection. Tested with WB, IHC-P, ELISA in Human. Gene Name: erythropoietin Protein Name: Erythropoietin
Purification:	Immunogen affinity purified.

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Target Details

Target:	EPO
Alternative Name:	EPO (EPO Products)
Target Type:	Hormone
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. Synonyms: EP antibody|EPO alpha antibody|EPO antibody|Epoetin antibody|Erythropoetin antibody|Erythropoietin antibody|Erythropoietin precursor antibody|MGC138142 antibody
UniProt:	P01588
Pathways:	JAK-STAT Signaling, Hormone Activity, Negative Regulation of intrinsic apoptotic Signaling, Negative Regulation of Transporter Activity

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Species: Human IHC-P: Concentration: 0.5-1 µg/mL, Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. ELISA: Concentration: 0.1-0.5 µg/mL, Species: Human Notes: Other applications have not been tested. Optimal dilutions should be determined by end users.
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.
Preservative:	Sodium azide
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:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
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

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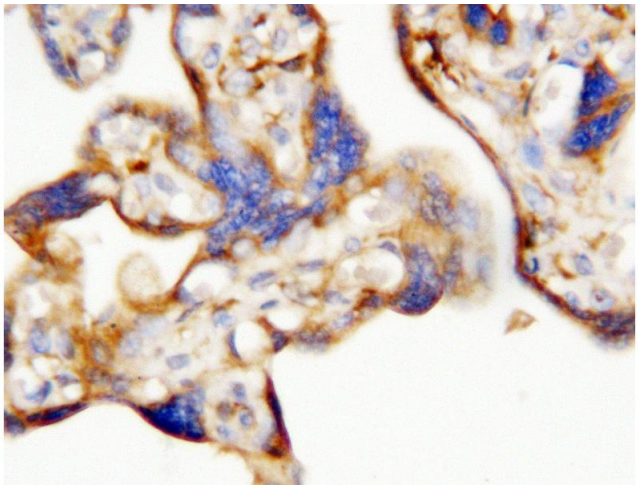

Immunohistochemistry

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

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