10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

Anti-EPO Antibody
Catalog # ABO12689

Specification

Anti-EPO Antibody - Product Information

Application	**WB, IHC**
Primary Accession	P01588
Host	**Rabbit**
Reactivity	**Human**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Erythropoietin(EPO) detection. Tested with WB, IHC-P, ELISA in Human.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-EPO Antibody - Additional Information

Gene ID 2056

Other Names
Erythropoietin, Epoetin, EPO

Calculated MW
21307 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat

ELISA , 0.1-0.5 µg/ml, Human, -
Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization
Secreted.

Tissue Specificity
Produced by kidney or liver of adult mammals and by liver of fetal or neonatal mammals.

Protein Name
Erythropoietin

Contents
Each vial contains 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3. Carrier free (No BSA) form available in stock. If you want this antibody carrier free please specify Carrier Free" or "No BSA" in your order note. "

Immunogen
E. coli-derived human EPO recombinant protein(Position: A1-R166).

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage

At -20˚C for one year. After r˚Constitution, 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.

Sequence Similarities
Belongs to the EPO/TPO family.

Anti-EPO Antibody - Protein Information

Name EPO

Function
Hormone involved in the regulation of erythrocyte proliferation and differentiation and the maintenance of a physiological level of circulating erythrocyte mass (PubMed:28283061). Binds to EPOR leading to EPOR dimerization and JAK2 activation thereby activating specific downstream effectors, including STAT1 and STAT3 (PubMed:9774108).

Cellular Location
Secreted.

Tissue Location
Produced by kidney or liver of adult mammals and by liver of fetal or neonatal mammals.

Anti-EPO Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-EPO Antibody - Images

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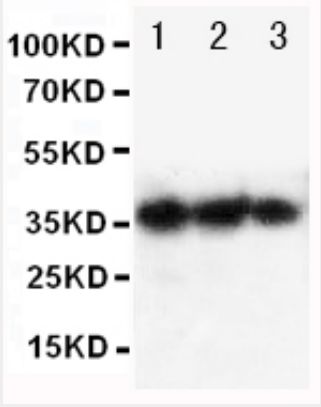
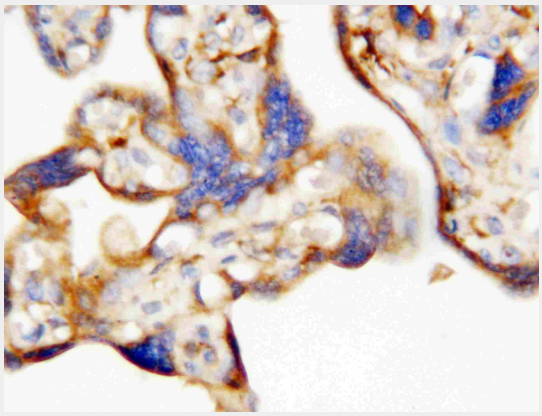


Anti-human EPO antibody, ABO12689, Western blottingLane 1: Recombinant human EPO Protein 10ng Lane 2: Recombinant human EPO Protein 5ng Lane 3: Recombinant human EPO Protein 2



Anti-human EPO antibody, ABO12689, IHC(P)IHC(P): Human Placenta Tissue

Anti-EPO Antibody - 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.