

# Anti-EPO Antibody

Catalog # ABO12689

## Product Information

---

|                          |                                                                                                          |
|--------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC-P, E                                                                                             |
| <b>Primary Accession</b> | <a href="#">P01588</a>                                                                                   |
| <b>Host</b>              | Rabbit                                                                                                   |
| <b>Reactivity</b>        | Human                                                                                                    |
| <b>Clonality</b>         | Polyclonal                                                                                               |
| <b>Format</b>            | Lyophilized                                                                                              |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Erythropoietin(EPO) detection. Tested with WB, IHC-P, ELISA in Human. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                     |

## Additional Information

---

|                                 |                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>                  | 2056                                                                                                                                                                                                            |
| <b>Other Names</b>              | Erythropoietin, Epoetin, EPO                                                                                                                                                                                    |
| <b>Calculated MW</b>            | 21307                                                                                                                                                                                                           |
| <b>Application Details</b>      | Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat<br><br>ELISA , 0.1-0.5 µg/ml, Human, -<br>Western blot, 0.1-0.5 µg/ml, Human                                                       |
| <b>Subcellular Localization</b> | Secreted.                                                                                                                                                                                                       |
| <b>Tissue Specificity</b>       | Produced by kidney or liver of adult mammals and by liver of fetal or neonatal mammals.                                                                                                                         |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                                       |
| <b>Protein Name</b>             | Erythropoietin                                                                                                                                                                                                  |
| <b>Contents</b>                 | 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. " |
| <b>Immunogen</b>                | E. coli-derived human EPO recombinant protein(Position: A1-R166).                                                                                                                                               |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                                                                                    |
| <b>Cross Reactivity</b>         | No cross reactivity with other proteins                                                                                                                                                                         |

|                              |                                                                                                                                                                                    |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>               | 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. |
| <b>Sequence Similarities</b> | Belongs to the EPO/TPO family.                                                                                                                                                     |

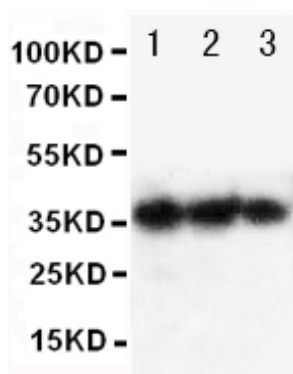
## Protein Information

|                          |                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | EPO                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Function</b>          | Hormone involved in the regulation of erythrocyte proliferation and differentiation and the maintenance of a physiological level of circulating erythrocyte mass (PubMed: <a href="#">28283061</a> ). Binds to EPOR leading to EPOR dimerization and JAK2 activation thereby activating specific downstream effectors, including STAT1 and STAT3 (PubMed: <a href="#">9774108</a> ). |
| <b>Cellular Location</b> | Secreted.                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Tissue Location</b>   | Produced by kidney or liver of adult mammals and by liver of fetal or neonatal mammals.                                                                                                                                                                                                                                                                                              |

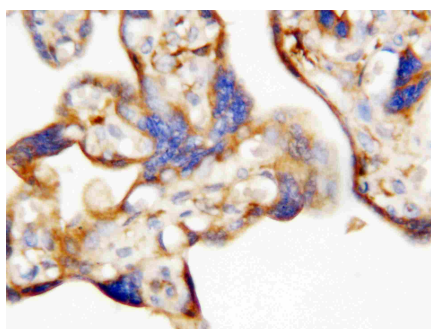
## Background

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.

## Images



Anti-human EPO antibody, ABO12689, Western blotting  
Lane 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)  
Human Placenta Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.