

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Erythropoietin R in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with rhEpo and rhTpo is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Erythropoietin R Pro26-Pro250 Accession # P19235
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Erythropoietin (Epo), a glycoprotein produced primarily by the kidney, is the principal factor that regulates erythropoiesis by stimulating the proliferation and differentiation of erythroid progenitor cells. The biological effects of Epo are mediated by the erythropoietin receptor (Epo R). The genes for human and mouse Epo R have been cloned and characterized. The full-length human Epo R cDNA encodes a type I membrane-spanning protein with 508 amino acid (aa) residues (a 24 aa residue hydrophobic signal sequence, a 226 aa residue extracellular domain, a 22 aa residue transmembrane domain and a 236 aa residue cytoplasmic domain). At the protein sequence level, the human Epo R is approximately 82% identical to the mouse protein. As a result of alternative splicing of the Epo R gene, cDNA clones encoding a truncated form of the Epo R as well as the soluble form of Epo R has been found. The presence of a soluble form of the Epo R has also been detected on human sera. Recombinant soluble Epo R binds Epo with high affinity and is a potent Epo antagonist.

PRODUCT SPECIFIC NOTICES

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