

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Erythropoietin R in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 690748
Purification	Protein A or G purified from ascites
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding Y426 of human Erythropoietin R Accession # P19235
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.
Flow Cytometry	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 full length human Epo R cDNA encodes a type I membrane-spanning protein with 508 amino acid (aa) (a 24 aa hydrophobic signal sequence, a 226 aa extracellular domain, a 22 aa transmembrane domain and a 236 aa 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 in human sera. Recombinant soluble Epo R binds Epo with high affinity and is a potent Epo antagonist.

PRODUCT SPECIFIC NOTICES

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