



Anti-EPOR monoclonal antibody, clone 49532 [Biotin] (DCABY-4296)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Erythropoietin (Epo) is a 30-kDa, heavily glycosylated protein produced primarily by the kidney. It is the principal factor that regulates erythropoiesis. The production of Epo by kidney cells is increased in response to hypoxia or anemia. The cDNAs for Epo have been cloned from many species. The mature proteins from the various species are highly conserved, exhibiting greater than 80% sequence identity at the amino acid level. The biological effects of Epo are mediated by the Erythropoietin receptor (Epo R). At the protein sequence level, the human Epo R is approximately 83% identical to the mouse protein. As a result of alternative splicing of the Epo R gene, cDNA clones encoding truncated soluble forms of Epo R have been found. Recombinant soluble Epo R binds Epo with high affinity and is a potent Epo antagonist.
Specificity	Detects human Epo R in ELISAs. In ELISAs, no cross-reactivity or interference was observed with recombinant human (rh) Epo, rhTpoR, or rmEpoR.
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Erythropoietin R. Ala25-Pro250 Accession Number P19235
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	49532
Purification	Protein A or G purified from hybridoma culture supernatant
Conjugate	Biotin
Applications	ELISA Detection (Matched Pair)

Format	Liquid
Size	250 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
Preservative	None
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	EPOR erythropoietin receptor [Homo sapiens (human)]
Official Symbol	EPOR
Synonyms	EPOR; erythropoietin receptor; EPO-R;
Entrez Gene ID	2057
Protein Refseq	NP_000112
UniProt ID	P19235
Chromosome Location	19p13.3-p13.2
Pathway	Cytokine-cytokine receptor interaction; EPO Receptor Signaling; EPO signaling pathway; Hematopoietic cell lineage; Jak-STAT signaling pathway; Kit Receptor Signaling Pathway; PI3K-Akt signaling pathway; Paxillin-independent events mediated by a4b1 and a4b
Function	erythropoietin receptor activity; identical protein binding; protein binding;