Recombinant Human EPOR, Fc-tagged

Cat. No. EPOR-27012TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to extracellular domain amino acids 25-250 of Human EPO Receptor fused to the Fc region of Human IgG1 (aa 93-330). The chimeric protein was expressed in modified human 293 cells.
Species	Human
ProteinLength	25-250 a.a.
Description	This gene encodes the erythropoietin receptor which is a member of the cytokine receptor family. Upon erythropoietin binding, this receptor activates Jak2 tyrosine kinase which activates different intracellular pathways including: Ras/MAP kinase, phosphatidylinositol 3-kinase and STAT transcription factors. The stimulated erythropoietin receptor appears to have a role in erythroid cell survival. Defects in the erythropoietin receptor may produce erythroleukemia and familial erythrocytosis. Dysregulation of this gene may affect the growth of certain tumors. Alternate splicing results in multiple transcript variants.
Conjugation	Fc
Tissue specificity	Erythroid cells and erythroid progenitor cells. Isoform EPOR-F is the most abundant form in EPO-dependent erythroleukemia cells and in late-stage erythroid progenitors. Isoform EPOR-S and isoform EPOR-T are the predominant forms in bone marrow. Isoform EP
Biological activity	The ED50 of EPOR-27012TH is typically 0.15-2.5 ng/ml as measured by its ability to

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	neutralize EPO-mediated proliferation of TF-1 cells.
Form	Lyophilised:It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial.Following reconstitution, short-term storage at 4°C is recommended, and longer-term storage of aliquots at -18 to -20°C. Repeated freeze thawing is not rec
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 10% Trehalose, 1% Human serum albumin
Storage	Store at +4°C.
Sequences of amino acids	Theoretical sequence:APPPNLPDPKFESKAALLAARGPEELLCF TERLEDLVCFWEE AASAGVGPGNYSFSYQLEDEPWKLC RLHQAPTARGAVRFWCSLPTADTSSFVPLE LRVTAASG APRYHRVIHINEVVLLDAPVGLVARLADESGHVVLRWLPPPETPMTSHI RYEVDVSAGNGAGSVQRVEILEGRTECVL SNLRGRTRYTFAVRARMAEPSFGGFW SAWSEPVSLLTP SDLDPRIPKVDKKVEPKSCDKTHTCPPCPAPELLGGPS VFLFPP KPKDTLMISRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTY RVVSVLTVLHQDWLNGKEYKCRVSNKALPAPIEKTISKAKGQPREPQVYTLPPSR D ELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKT TPPVLDSDGSFFLYSKLTV DKSRWQQGNVFSCSVMHEA LHNHYTQKSLSLSPGK
Sequence Similarities	Belongs to the type I cytokine receptor family. Type 1 subfamily.Contains 1 fibronectin type-III domain.

GENE INFORMATION

Gene Name	EPOR erythropoietin receptor [Homo sapiens]
Official Symbol	EPOR

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Synonyms	EPOR; erythropoietin receptor;
Gene ID	2057
mRNA Refseq	NM_000121
Protein Refseq	NP_000112
MIM	133171
Uniprot ID	P19235
Chromosome Location	19p13.3-p13.2
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; EPO Receptor Signaling, organism-specific biosystem; EPO signaling pathway, organism-specific biosystem; Hematopoietic cell lineage, organism-specific biosystem;
Function	erythropoietin receptor activity; identical protein binding; protein binding; receptor activity;

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