



Sheep Anti-Human EPOR Polyclonal antibody (CPBT-65821SH)

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

PRODUCT INFORMATION

Product Overview

This product recognises Erythropoietin Receptor (EPOR), a type I transmembrane protein and member of the type I cytokine receptor family, expressed by erythroid cells and erythroid progenitor cells, which acts as a receptor for erythropoietin (EPO) to mediate erythroblast proliferation and differentiation, and maintain progenitor survival. Binding of EPO to EPOR, results in the dimerization of the EPOR and the triggering of the JAK2/STAT5 signaling cascade, and in some cell types activation of STAT1 and STAT3. Several isoforms of EPOR exist: EPOR-F, EPOR-S and EPOR-T, and a functional EPOR is found on endothelial cells and cardiomyocytes within the cardiovascular system, suggesting a role in cardiac function. has been shown to block Iodine125 labelled erythropoietin ligand binding using erythroleukemia cell line TF-1 with 3000 EPOR/cell in neutralization studies. is reported as suitable for use in immunocytochemistry. has been reported for use in functional studies. Removal of Sodium Azide is recommended prior to use in functional assays. The recommended concentration for functional assays is 500ug/ml. ELISA This product is suitable for use in indirect ELISA applications. Western Blotting detects a 49kDa band of EPOR-GST on SDS-PAGE.

Specificity	EPOR
Immunogen	Partial cDNA of the extracellular domain of human EPOR expressed as a GST fusion protein in
Isotype	IgG
Source/Host	Sheep
Species Reactivity	Human
Conjugate	Unconjugated
Applications	ELISA; IP; WB
Format	Purified IgG - liquid

Size	100 µg
Preservative	0.09% Sodium Azide
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

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	P14753
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 a4b7;
Function	erythropoietin receptor activity; identical protein binding; protein binding;