

Mouse anti-Human EPOR Monoclonal Antibody | anti-EPOR antibody

anti-human Epo-R monoclonal antibody

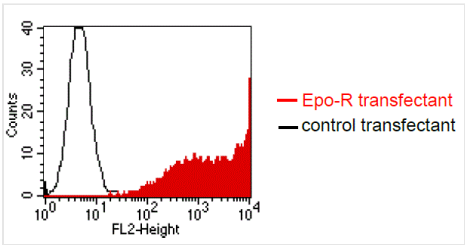
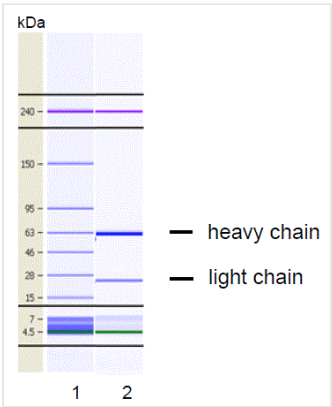
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71489	Mouse	Human	ELISA, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

EPOR; Monoclonal Antibody; anti-human Epo-R monoclonal antibody; Erythropoietin receptor; anti-EPOR antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	VP-2E8
Specificity	anti-human Epo-R
Purity/Purification	Protein G
Form/Format	Purified
Sequence Length	508
Applicable Applications for anti-EPOR antibody	ELISA (Competitive ELISA), FCM/FACS (Flow Cytometry)
Buffer	phosphate buffered saline, pH 7.2
Immunogen	genetic immunisation with cDNA encoding the ECD of human Epo-R
Selection	based on recognition of the complete native protein expressed on transfected mammalian cells
Immunogen	cDNA
Preparation and Storage	Short term: 2 degree C - 8 degree C; long term: -20 degree C (avoid repeated freezing and thawing)



Application Data
Fig.1: GM-1202. BOSC23 cells were transiently transfected with an expression vector encoding either Epo-R (red curve) or an irrelevant protein (control transfectant). Binding of VP-2E8 was detected with a PE conjugated secondary antibody. A positive signal was obtained only with Epo-R transfected cells.

Application Data
Fig.2: CGE analysis of purified VP-2E8 monoclonal antibody. Lane 1: molecular weight marker, Lane 2: 2 µg of purified VP-2E8-B6 antibody. Proteins were separated by CGE (capillary gel electrophoresis, Agilent 2100 Bioanalyzer). Internal control bands (240 kDa / 7 kDa / 4,5 kDa).

ADDITIONAL INFORMATION

Related Product Information for anti-EPOR antibody	Background: Erythropoietin receptor (Epo-R) belongs to the cytokine receptor family and is a 507 amino acid type I transmembrane protein. EpoR pre-exists as dimers which changes the homodimerized state after binding of its 34 kDa ligand erythropoietin (Epo) (1,2). Erythropoietin is the primary regulator of erythropoiesis, and promotes the survival, proliferation, and differentiation of erythroid progenitor cells. Both, Epo and Epo-R are essential for the production of red blood cells due to Epo exerts its function through the Epo receptor (3). The Epo-R is also expressed in many organs outside the bone marrow, suggesting that Epo is a pleiotropic anti-apoptotic factor. Signaling pathways have been shown to influence numerous cellular functions in normal and tumor cells, including proliferation, apoptosis, and drug resistance (4).
References	Winkelmann JC (1992). The human erythropoietin receptor. Int J Cell Cloning. Sep;10(5):254- 61. Livnah O, Stura EA, Middleton SA, Johnson DL, Jolliffe LK, Wilson IA (1999). Crystallographic evidence for preformed dimers of erythropoietin receptor before ligand activation. Science 283 (5404): 987–90. Wilson IA, Jolliffe LK (1999). The structure, organization, activation and plasticity of the erythropoietin receptor. Curr Opin Struct Biol.;9(6):696-704 Hedley BD, Allan AL, Xenocostas A (2011). The role of erythropoietin and erythropoiesisstimulating agents in tumor progression. Clin Cancer Res. 15;17(20):6373-80

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503591
NCBI GeneID	2057
NCBI Accession #	NP_000112.1
NCBI GenBank Nucleotide #	NM_000121.3
UniProt Accession #	P19235; Q15443; Q2M205; B2RCG4
Molecular Weight	35,809 Da
NCBI Official Full Name	erythropoietin receptor
NCBI Official Synonym Full Names	erythropoietin receptor
NCBI Official Symbol	EPOR
NCBI Official Synonym Symbols	EPO-R
NCBI Protein Information	erythropoietin receptor
UniProt Gene Name	EPOR

UniProt Synonym Gene Names	EPO-R
UniProt Entry Name	EPOR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/epor-antibody-clone-vp-2e8-competitive-elisa-flow-cytometry-elisa/71489>