EPOR Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	EPOR, Blocking Peptide
Full Product Name	EPOR Blocking Peptide
Product Gene Name	EPOR blocking peptide
Product Synonym Names	EPO R; EPO-R; epor; EPOR_HUMAN; Erythropoietin receptor; Erythropoietin receptor precursor; MGC138358
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	EPOR peptide (MBS9626472) is used for blocking the activity of EPOR antibody (MBS9607759)
Molecular Weight	55,065 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (11487881..11495018, complement). Location: 19p13.3-p13.2
OMIM	133100
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for EPOR blocking peptide	Blocking/Control
Related Product Information for EPOR blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of EPOR blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for EPOR purchase	MBS9626472 is a blocking peptide targeting EPOR.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EPOR. It may not necessarily be applicable to this product.

NCBI GI #	4503591
NCBI GeneID	2057
NCBI Accession #	NP_000112.1
UniProt Primary Accession #	P19235
UniProt Secondary Accession #	Q15443; Q2M205; B2RCG4

UniProt Related Accession #	P19235
GenBank Nucleotide #	NM_000121.3
NCBI Official Full Name	erythropoietin receptor
NCBI Official Synonym Full Names	erythropoietin receptor
NCBI Official Symbol	EPOR
NCBI Official Synonym Symbols	EPO-R
UniProt Protein Name	Erythropoietin receptor
Protein Family	Erythropoietin receptor
UniProt Gene Name	EPOR
UniProt Synonym Gene Names	EPO-R
UniProt Entry Name	EPOR_HUMAN
NCBI Protein Information	erythropoietin receptor
NCBI Summary for EPOR	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.[provided by RefSeq, May 2010]
UniProt Comments for EPOR	EPOR: erythropoietin receptor: a member of the cytokine receptor family. Mediates erythropoietin-induced erythroblast proliferation, differentiation and survival. Upon EPO stimulation, EPOR dimerizes triggering the JAK2/STAT5 signaling cascade. In some cell types, can also activate STAT1 and STAT3. Forms homodimers on EPO stimulation. Tyrosine-phosphorylated EpoR may bind several SH2 domain-containing proteins including LYN, the adapter protein APS, SHP-1, SHP-2, JAK2, PI3 kinases, STAT5A/B, SOCS3, and CRKL. Defects in the erythropoietin receptor may produce erythroleukemia and familial erythrocytosis. Three alternatively-spliced isoforms have been described. Isoform EPOR-T, missing the cytoplasmic tail, acts as a dominant-negative receptor of EPOR-mediated signaling. Protein type: Membrane protein, integral; Receptor, cytokine Chromosomal Location of Human Ortholog: 19p13.3-p13.2 Cellular Component: integral to plasma membrane; extracellular region Molecular Function: identical protein binding; protein binding; erythropoietin receptor activity Biological Process: heart development; brain development; decidualization; signal transduction Disease: Erythrocytosis, Familial, 1
Research Articles on EPOR	**1.** EPOR expression may be involved in tumor progression and proliferation in HER2-positive breast cancer.EPOR contributes to the mechanism of trastuzumab resistance in breast cancer.
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