

Epo-R Monoclonal Antibody | anti-EPOR antibody

Rat anti-human Epo-R monoclonal antibody

CATALOG #
AAA71497

APPLICATIONS
Immunoprecipitation, Western Blot, Immunohistochemistry, ELISA, Flow Cytometry, Functional Assay

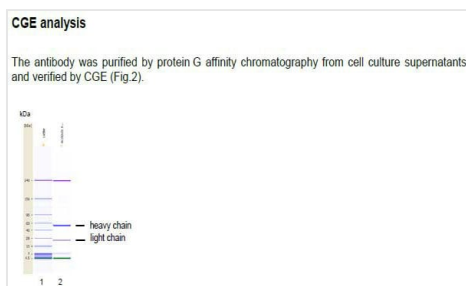
PRODUCT SYNONYMS

Epo-R; Monoclonal Antibody; Rat anti-human Epo-R monoclonal antibody; anti-EPOR antibody

PRODUCT SPECIFICATIONS

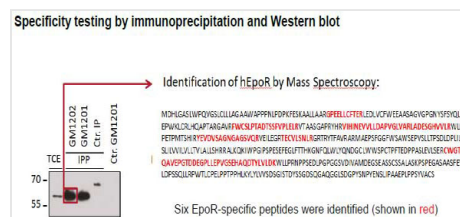
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	BCO-3H2
Specificity	anti-human Epo-R
Purity/Purification	Protein G
Sequence Length	508
Applicable Applications for anti-EPOR antibody	IP (Immunoprecipitation), WB (Western Blot), IHC (Immunohistochemistry), ELISA (Competitive ELISA), FCM/FACS (Flow Cytometry)
Buffer	Phosphate buffered saline, pH 7.2
Immunogen	Peptide immunization (GDSQGAQGGLSDGPYSN) from the cytoplasmic domain of human Epo-R
Selection	Based on recognition of the complete native protein expressed on mammalian cells and the denatured protein in Western blotting and immunohistochemistry
Preparation and Storage	Short term: 2-8°C Long term: -20°C (Avoid repeated freezing and thawing)

IMAGES



Application Data

Fig.2: CGE analysis of purified GM1201 monoclonal antibody. Lane 1: molecular weight marker, Lane 2: 2 mug of purified GM1201 antibody. Proteins were separated by CGE (capillary gel electrophoresis, Agilent 2100 Bioanalyzer). Internal control bands (240 kDa / 7 kDa / 4,5 kDa).



Application Data

Fig.1: Mass spectroscopic analysis of EpoR immuno-precipitated from UT7 cells by GM-1201 or GM-1202 that were further analysed on denaturing SDS-PAGE gels (identified in Western blot with GM-1201). Segments of the gel were cut out for analysis by mass spectroscopy. For detailed information see Reference 5.

ADDITIONAL INFORMATION

Related Product Information for anti-EPOR antibody	Purified Monoclonal Rat Antibody 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). Development and specificity testing of the GM-1201 antibody are described in detail elsewhere (5).
References	1. Winkelman JC (1992). The human erythropoietin receptor. Int J Cell Cloning. Sep;10(5):254-61 2. 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 3. Wilson IA, Jolliffe LK (1999). The structure, organization, activation and plasticity of the erythropoietin receptor. Curr Opin Struct Biol.;9(6): 696-704 4. 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 5. Maxwell P et al. (2015). Novel antibodies directed against the human erythropoietin receptor: creating a basis for clinical implementation. Br J Haematol; 168(3):429-42. doi: 10.1111/bjh.13133. Epub 2014 Oct 4.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503591
NCBI GeneID	2057
NCBI Accession #	NP_000112.1
NCBI 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
NCBI Protein Information	erythropoietin receptor
UniProt Protein Name	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/epo-r-antibody-clone-bco-3h2-immunoprecipitation-western-blot-immunohistochemistry-competitive-elisa-flow-cytometry-elisa/71497>