

Product datasheet for **AM26749PU-N**

EPOR Mouse Monoclonal Antibody [Clone ID: VP-2E8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	VP-2E8
Applications:	ELISA, FC, IP, WB
Recommended Dilution:	Flow cytometry: 1.2 µg/10 ⁶ cells. ELISA: 1/200 - 1/400. Cell-based ELISA: 1/200 - 1/400. Immunoprecipitation: See ref 5.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	cDNA encoding the ECD of human Epo-R. Selection: Based on recognition of the complete native protein expressed on transfected mammalian cells.
Specificity:	Recognizes Human Epo-R. Other species not tested.
Formulation:	Phosphate buffered saline, pH 7.2 State: Purified State: Liquid Ig fraction
Purification:	Protein G
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	erythropoietin receptor
Database Link:	Entrez Gene 2057 Human P19235



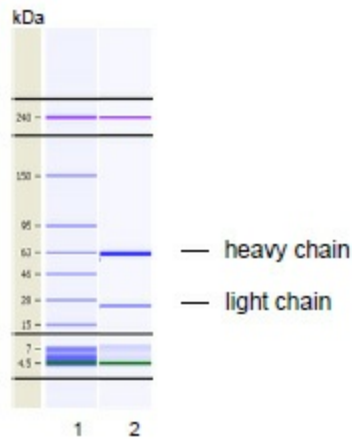
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Background:

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). Development and specificity testing of the antibody are described in detail elsewhere (5).

Synonyms:

EPOR, EPO-R

Product images:


CGE analysis of purified VP-2E8 monoclonal antibody. Lane 1: molecular weight marker, Lane 2: 2 ug 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). (240 kDa / 7 kDa / 4, 5 kDa).