

Epo Polyclonal Antibody

Catalog NumberPA1-20852

Product data sheet

Details		Tested Applications	Dilution *
Size	50 µg	ELISA (ELISA)	Assay-dependent
Host/Isotope	Chicken / IgY	Western Blot (WB)	1:1,800-1:2,200
Class	Polyclonal	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Type	Antibody		
Immunogen	Full length human EPO expressed in CHO cells		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

PA1-20852 detects EPO in human, mouse, and rat samples. PA1-20852 has been successfully used in ELISA and Western blot procedures. The predicted molecular weight of PA1-20852 is 21 kDa. The PA1-20852 immunogen is full length human EPO expressed in CHO cells. Store at 4°C short term. For extended storage, aliquot and store at -20°C or below. Avoid freeze/thaw cycles.

Background/Target Information

Erythropoietin (EPO) protein is a growth factor essential for the survival, proliferation, and differentiation of erythroid precursors. EPO is not responsible for early commitment to the lineage, and instead induces the final maturation of partially differentiated erythroid cells and the production of red cell-specific proteins, such as hemoglobin. The EPO receptor (EPOR) is present in higher levels on precursor cells, and expression diminishes with cell maturation. Hepatocytes are the main source of EPO in the fetus, followed by interstitial cells of the kidney after birth and through adulthood. EPO expression is upregulated during hypoxia, and low levels of transcription have also been detected in lung and brain tissue under these conditions. Recent data suggest that EPO may also play a role in the protection of neuronal tissue from damage and initiation of repair.

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