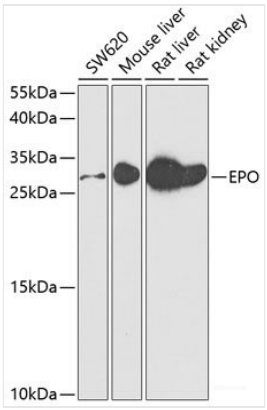
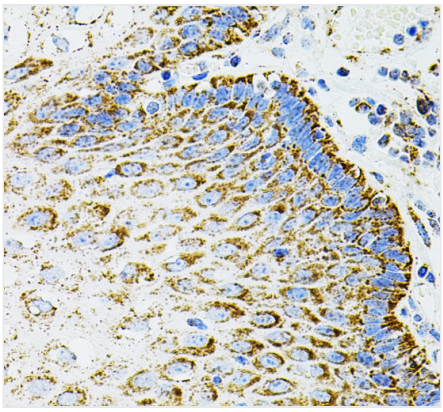
EPO Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

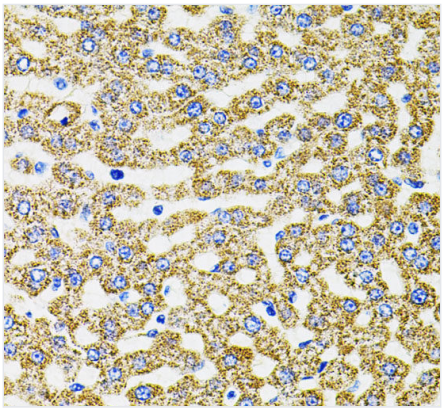
Product Name	EPO, Polyclonal Antibody
Full Product Name	EPO Polyclonal Antibody
Product Gene Name	anti-EPO antibody
Product Synonym Names	EPO; EP; MVCD2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Purity/Purification	Affinity purification
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	21,307 Da
OMIM	133170
3D Structure	ModBase 3D Structure for P01588
Immunogen	A synthetic peptide of human EPO
Conjugation	Unconjugated
Product Categories/Family for anti-EPO antibody	Cancer; Cardiovascular; Metabolism; Developmental Biology; Signal Transduction; Stem Cells; Polyclonal Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-EPO antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-EPO antibody	WB: 1:500-1:2000 IHC: 1:100-1:200
Related Product Information for anti-EPO antibody	This gene is a member of the EPO/TPO family and encodes a secreted, glycosylated cytokine composed of four alpha helical bundles. The protein is found in the plasma and regulates red cell production by promoting erythroid differentiation and initiating hemoglobin synthesis. This protein also has neuroprotective activity against a variety of potential brain injuries and antiapoptotic functions in several tissue types.
Other Notes	Small volumes of anti-EPO antibody 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 EPO purchase	MBS2566528 is an antibody targeting EPO. Also known as EPO Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



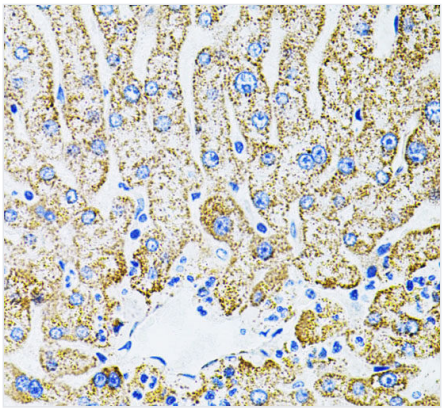
Western Blot (WB) of anti-EPO antibody
Western blot analysis of extracts of various cell lines using EPO Polyclonal Antibody at dilution of 1:500.



Immunohistochemistry (IHC) of anti-EPO antibody
Immunohistochemistry of paraffin-embedded Human esophagus using EPO Polyclonal Antibody



Immunohistochemistry (IHC) of anti-EPO antibody
Immunohistochemistry of paraffin-embedded Rat liver using EPO Polyclonal Antibody



Immunohistochemistry (IHC) of anti-EPO antibody
Immunohistochemistry of paraffin-embedded Human liver damage using EPO Polyclonal Antibody

ADDITIONAL DETAILS

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

NCBI GI #	62240997
NCBI GeneID	2056
NCBI Accession #	NP_000790.2
UniProt Primary Accession #	P01588
UniProt Secondary Accession #	Q2M2L6; Q549U2; Q9UDZ0; Q9UEZ5; Q9UHA0
UniProt Related Accession #	P01588
GenBank Nucleotide #	NM_000799.2
NCBI Official Full Name	erythropoietin
NCBI Official Synonym Full Names	erythropoietin
NCBI Official Symbol	EPO
NCBI Official Synonym Symbols	EP; MVCD2
UniProt Protein Name	Erythropoietin
UniProt Synonym Protein Names	INN: Epoetin
Protein Family	Erythropoietin

UniProt Gene Name	EPO
UniProt Entry Name	EPO_HUMAN
NCBI Protein Information	erythropoietin; epoetin
UniProt Comments for EPO	EPO: Erythropoietin is the principal hormone involved in the regulation of erythrocyte differentiation and the maintenance of a physiological level of circulating erythrocyte mass. Genetic variation in EPO is associated with susceptbility to microvascular complications of diabetes type 2 (MVCD2). These are pathological conditions that develop in numerous tissues and organs as a consequence of diabetes mellitus. They include diabetic retinopathy, diabetic nephropathy leading to end-stage renal disease, and diabetic neuropathy. Diabetic retinopathy remains the major cause of new-onset blindness among diabetic adults. It is characterized by vascular permeability and increased tissue ischemia and angiogenesis. Belongs to the EPO/TPO family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 7q22 Cellular Component: cell surface; extracellular region; extracellular space Molecular Function: protein binding Biological Process: erythrocyte differentiation; negative regulation of transcription from RNA polymerase II promoter; positive regulation of cell proliferation; positive regulation of DNA replication; positive regulation of Ras protein signal transduction; positive regulation of transcription, DNA-dependent; positive regulation of tyrosine phosphorylation of Stat5 protein Disease: Microvascular Complications Of Diabetes, Susceptibility To, 2
Research Articles on EPO	**1.** Studies indicate that the signalling mediated by EPO is required for normal brain development.
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