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Product Information

MemDX™ Antibody Discovery - Human Erythropoietin / EPO (28-193) Membrane Protein, Partial

Cat. No.: **MP0050F**
This product is for research use only and is not intended for diagnostic use.

This membrane protein is Human Erythropoietin / EPO (28-193). It has been tested in SDS-PAGE. We provide this protein to facilitate your membrane protein antibody discovery and development.

Product Specifications

Host Species
Human

Target Protein
Erythropoietin / EPO

Protein Length
ECD

Molecular Weight
The protein has a calculated MW of 18.4 kDa. The protein migrates as 28-35 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Sequence
AA Ala 28 - Arg 193 (Accession # AAH93628.1).

Product Description

Application
SDS-PAGE

Expression Systems
HEK293

Tag
No tag

Protein Format
Soluble

Form
LYOPH

Reconstitution

Please see Certificate of Analysis for specific instructions.

Endotoxin

<1.0 EU/μg by the LAL method

Purity

>97% as determined by SDS-PAGE.

Buffer

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Storage

Stored at lyophilized form at -20°C or lower. Avoid repeated freeze-thaw cycles.
The antigen can be stable for 12 months in lyophilized form after storage at -20°C to -80°C, 3 months under sterile coditions after reconstitution after storage at -80°C.

Target

Target Protein

Erythropoietin / EPO

Full Name

erythropoietin

Introduction

This gene encodes a secreted, glycosylated cytokine composed of four alpha helical bundles. The encoded protein is mainly synthesized in the kidney, secreted into the blood plasma, and binds to the erythropoietin receptor to promote red blood cell production, or erythropoiesis, in the bone marrow. Expression of this gene is upregulated under hypoxic conditions, in turn leading to increased erythropoiesis and enhanced oxygen-carrying capacity of the blood. Expression of this gene has also been observed in brain and in the eye, and elevated expression levels have been observed in diabetic retinopathy and ocular hypertension. Recombinant forms of the encoded protein exhibit neuroprotective activity against a variety of potential brain injuries, as well as antiapoptotic functions in several tissue types, and have been used in the treatment of anemia and to enhance the efficacy of cancer therapies

Alternative Names

EP; DBAL; ECYT5; MVCD2;Epoetin

Gene ID

2056

UniProt ID

P01588

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