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Product Information

MemDX™ Membrane Protein Human EPO (Erythropoietin) expressed in CHO for Antibody Discovery

Cat. No.: **MP0039Q**
This product is for research use only and is not intended for diagnostic use.

This product is a 18 kDa Human EPO membrane protein expressed in CHO. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
EPO

Protein Length
Full-length

Protein Class
Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Transmembrane

Molecular Weight
18 kDa

Sequence
MGVHECPAWLWLLLSLLSLPLGLPVLGAPPRLICDSRVLERYLLEAKEAENITTGCAEHCSLNENITVPDTKVNFYAWKRMEVGQQA

Product Description

Expression Systems
CHO

Tag
Tag Free

Form
Powder

Endotoxin
Less than 0.01 ng per μg protein

Purity

>98%, as determined by Coomassie stained SDS-PAGE.

Buffer

1 x PBS

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

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

DBAL; ECYT5; EP; MVCD2; erythropoietin; epoetin

Gene ID

2056

UniProt ID

P01588

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