

Product Information

MemDX™ Membrane Protein Human HP (Haptoglobin) for Antibody Discovery

Cat. No.: **MP0926J**

This product is for research use only and is not intended for diagnostic use.

This product is a 43.3 kDa Human HP membrane protein expressed in HEK293T. 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

HP

Protein Length

Full-length

Protein Class

Druggable Genome, Protease, Secreted Protein, Transmembrane

Molecular Weight

43.3 kDa

Sequence

MSALGAVIALLLWGQLFAVDGNDVTIDADDGCPKPPEIAHGYVEHSVRYQCKNYYKLRTEGDGVYTLND
KKQWINKAVGDKLPECEADDGCPKPPEIAHGYVEHSVRYQCKNYYKLRTEGDGVYTLNEKQWINKAVGD
KLPECEAVCGKPKNPANPVQRILGGHLDAGSFQWQAKMVSHHNLTTGATLINEQWLLTTAKNLFLNHSE
NATAKDIAPTLTLYVGKKQLVEIEKVVLHPNYSQVDIGLIKLQKVSVNERVMPICLPSKDYAEVGRVGY
VSGWGRNANFKFTDHLKYVMLPVADQDQCIRHYEGSTVPEKKTPKSPVGVQPILNNEHTFCAGMSKYQEDT
CYGDAGSAFAVHDLEEDTWYATGILSFDKSCAVAEYGVYVKVTSIQDWVQKTIEN

Product Description

Expression Systems

HEK293T

Tag

C-Myc/DDK

Form

Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

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

Target**Target Protein**

HP

Full Name

Haptoglobin

Introduction

This gene encodes a preproprotein, which is processed to yield both alpha and beta chains, which subsequently combine as a tetramer to produce haptoglobin. Haptoglobin functions to bind free plasma hemoglobin, which allows degradative enzymes to gain access to the hemoglobin, while at the same time preventing loss of iron through the kidneys and protecting the kidneys from damage by hemoglobin. Mutations in this gene and/or its regulatory regions cause ahaptoglobinemia or hypohaptoglobinemia. This gene has also been linked to diabetic nephropathy, the incidence of coronary artery disease in type 1 diabetes, Crohn's disease, inflammatory disease behavior, primary sclerosing cholangitis, susceptibility to idiopathic Parkinson's disease, and a reduced incidence of *Plasmodium falciparum* malaria. The protein encoded also exhibits antimicrobial activity against bacteria. A similar duplicated gene is located next to this gene on chromosome 16. Multiple transcript variants encoding different isoforms have been found for this gene.

Alternative Names

BP; HP2ALPHA2; HPA1S

Gene ID

[3240](#)

UniProt ID

[P00738](#)