

Recombinant Human HP Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. HP-079H Lot. No. (See product label)

SPECIFICATION

Product Overview	HP MS Standard C13 and N15-labeled recombinant protein (NP_005134) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	45.21 kDa

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AA Sequence	MSALGAVIALLLWGQLFAVDSGNDVTDIADDGCPKPPEIAHGYVEHSVRYQCKNYY KLRTGEDGVYTLNDKKQWINKAVGDKLPECEADDGCPKPPEIAHGYVEHSVRYQCK NYYKLRTGEDGVYTLNNEKQWINKAVGDKLPECEAVCGKPKNPANPVQRILGGHLD AKGSFPWQAKMVSHHNLTTGATLINEQWLLTTAKNLFNLHSENATAKDIAPTLTLYV GKKQLVEIEKVVLHPNYSQVDIGLIKQKQVSVNERVMPICLPSKDYAEVGRVGYVS GWGRNANFKFTDHLKYVMLPVADQDQCIRHYEGSTVPEKKTTPKSPVGVQPILNEHT FCAGMSKYQEDTCYGDAGSAFAVHDLEEDTWYATGILSFDKSCAVAEGVYVKVTS IQDWVQKTIAENTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	HP haptoglobin [Homo sapiens (human)]
Official Symbol	HP
Synonyms	HP; haptoglobin; BP; HP2ALPHA2; HPA1S; haptoglobin; binding peptide; haptoglobin alpha(1S)-beta; haptoglobin alpha(2FS)-beta; haptoglobin, alpha polypeptide; haptoglobin, beta polypeptide; zonulin;
Gene ID	3240

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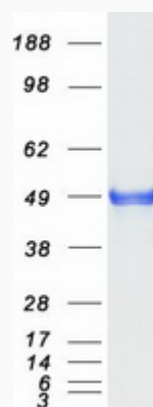
mRNA Refseq NM_005143

Protein Refseq NP_005134

MIM 140100

UniProt ID P00738

SDS-PAGE



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