

## Product datasheet for PH323612

### Haptoglobin (HP) (NM\_005143) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	HP MS Standard C13 and N15-labeled recombinant protein (NP_005134)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC223612
Predicted MW:	45.21 kDa
Protein Sequence:	>RC223612 representing NM_005143 Red=Cloning site Green=Tags(s)  MSALGAVIALLLWGQLFAVDSGNDVTDIADDGCPKPEIAHGYVEHSVRYQCKNYYKLRTEGDGVYTLND KKQWINKAVGDKLPECEADDGCPKPEIAHGYVEHSVRYQCKNYYKLRTEGDGVYTLNNEKQWINKAVGD KLPECEAVCGKPKNPANPVQRILGGHLDAGSFPWQAKMVSHHNLTTGATLINEQWLLTTAKNLFNLHSE NATAKDIAPTLTLYVGGKQLVEIEKVVLHPNYSQVDIGLIKLKQKVSVNERVMPICLPSKDYAEVGRVGY VSGWGRNANFKFTDHLKYVMLPVADQDQCIRHYEGSTVPEKKTSPKSPVGVQPILNEHTFCAGMSKYQEDT CYGDAGSAFAVHDL EEDTWYATGILSFDKSCAVAEYGVYVKVTSIQDWVQKTI AEN  TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_005134</a>
RefSeq Size:	1433
RefSeq ORF:	1218
Synonyms:	BP; HP2ALPHA2; HPA1S
Locus ID:	3240



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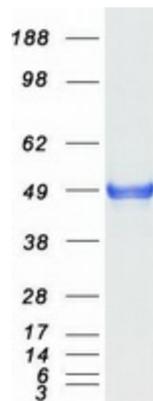
UniProt ID: [P00738](#), [Q6PEJ8](#)

Cytogenetics: 16q22.2

**Summary:** 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. [provided by RefSeq, Oct 2014]

**Protein Families:** Druggable Genome, Protease, Secreted Protein, Transmembrane

### Product images:



Coomassie blue staining of purified HP protein (Cat# [TP323612]). The protein was produced from HEK293T cells transfected with HP cDNA clone (Cat# [RC223612]) using MegaTran 2.0 (Cat# [TT210002]).