

## Product datasheet for TP323612L

### Haptoglobin (HP) (NM\_005143) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human haptoglobin (HP), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC223612 representing NM_005143 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MSALGAVIALLLWGQLFAVDSGNDVTDIADDGCPKPPEIAHGYVEHSVRYQCKNYYKLRTEDGVYTLND KKQWINKAVGDKLPECEADDGCPKPPEIAHGYVEHSVRYQCKNYYKLRTEDGVYTLNNEKQWINKAVGD KLPECEAVCGKPKNPANPVQRILGGHLDAGSFPWQAKMVSHHNLTTGATLINEQWLLTTAKNLFNLHSE NATAKDIAPTLTYVGKKQLVEIEKVVLPNYSQVDIGLIKQKVSVNERVMPICLPSKDYAEVGRVGY VSGWGRNANFKFTDHLKYVMLPVADQDQCIRHYEGSTVPEKKTSPVGVQPILNEHTFCAGMSKYQEDT CYGDAGSAFAVHDLEEDTWYATGILSFDKSCAVAEGVYVKVTSIQDWVQKTIAEN
	<b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	43.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_005134</a>
Locus ID:	3240



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

RefSeq Size: 1433

Cytogenetics: 16q22.2

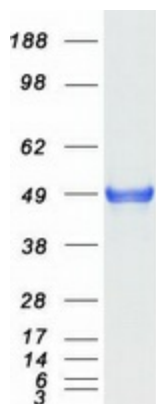
RefSeq ORF: 1218

Synonyms: BP; HP2ALPHA2; HPA1S

**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]).