

## Recombinant Goat HP Protein, His&SUMO-tagged

Cat. No. HP-2770G Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Goat HP Protein (Val19-Asn401) with N-His&SUMO tag was expressed in E. coli.
<b>Species</b>	Goat
<b>Source</b>	E.coli
<b>ProteinLength</b>	Val19-Asn401
<b>Description</b>	<p>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.</p>
<b>Form</b>	Freeze-dried powder

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Molecular Mass</b>	Predicted Molecular Mass: 56.5 kDa Accurate Molecular Mass: 63 kDa
<b>Purity</b>	> 90%
<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
<b>Storage Buffer</b>	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
<b>Reconstitution</b>	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">LOC102176354 haptoglobin [ Capra hircus (goat) ]</a>
<b>Official Symbol</b>	<a href="#">HP</a>
<b>Synonyms</b>	Haptoglobin; Hpt; HP; Hp2-Alpha; Alpha-2-Macroglobulin; Zonulin; LOC102176354; HP
<b>Gene ID</b>	<a href="#">102176354</a>

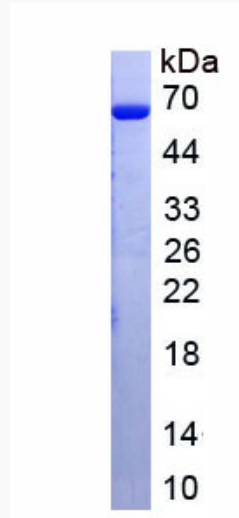
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mRNA Refseq [XM\\_005692202](#)

Protein Refseq [XP\\_005692259](#)



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