Recombinant Goat HP Protein, His&SUMO-tagged

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

SPECIFICATION

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

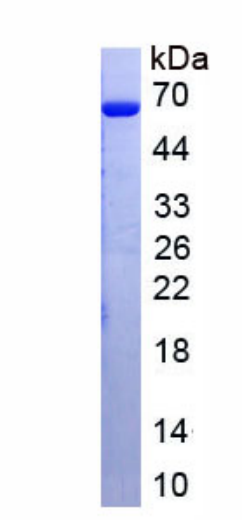
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Molecular Mass	Predicted Molecular Mass: 56.5 kDa Accurate Molecular Mass: 63 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated 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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	LOC102176354 haptoglobin [Capra hircus (goat)]
Official Symbol	HP
Synonyms	Haptoglobin; Hpt; HP; Hp2-Alpha; Alpha-2-Macroglobulin; Zonulin; LOC102176354; HP
Gene ID	102176354

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mRNA Refseq	XM_005692202
Protein Refseq	XP_005692259
	

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