

Anti-HP Antibody



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.

Model	STJ116119
Host	Rabbit
Reactivity	Human, Mouse
Applications	IF, WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 123-347 of human HP (NP_001119574.1).
Gene ID	3240
Gene Symbol	HP
Dilution range	WB 1:500 - 1:2000

	IF 1:50 - 1:200
Tissue Specificity	Expressed by the liver and secreted in plasma
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Haptoglobin Zonulin
Molecular Weight	45.205 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:5141 OMIM:140100 Reactome:R-HSA-2168880
Alternative Names	Haptoglobin Zonulin
Function	As a result of hemolysis, hemoglobin is found to accumulate in the kidney and is secreted in the urine, Haptoglobin captures, and combines with free plasma hemoglobin to allow hepatic recycling of heme iron and to prevent kidney damage, Haptoglobin also acts as an Antimicrobial
Cellular Localization	Secreted

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