



# Anti-HP polyclonal antibody (CABT-BL1830)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Immunogen</b>	Human haptoglobin purified from serum. All Hp types (Hp1-1, Hp1-2 and Hp2-2) are present in the immunogen.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Sheep
<b>Species Reactivity</b>	Human
<b>Purification</b>	IgG fraction
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	DID, RID, IEP
<b>Cellular Localization</b>	Secreted.
<b>Format</b>	Liquid
<b>Buffer</b>	Glycine buffered saline pH7.4, 0.1% Sodium Azide, 0.1% EACA, 0.01% Benzamidine, 1mM EDTA
<b>Preservative</b>	0.1% Sodium Azide
<b>Storage</b>	Store at +4°C.

## BACKGROUND

<b>Introduction</b>	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; Antioxidant, has antibacterial activity and plays a role in modulating many
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aspects of the acute phase response. Hemoglobin/haptoglobin complexes are rapidly cleared by the macrophage CD163 scavenger receptor expressed on the surface of liver Kupfer cells through an endocytic lysosomal degradation pathway. Uncleaved haptoglobin, also known as zonulin, plays a role in intestinal permeability, allowing intercellular tight junction disassembly, and controlling the equilibrium between tolerance and immunity to non-self antigens.

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## GENE INFORMATION

Entrez Gene ID	<a href="#">3240</a>
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Protein Refseq	<a href="#">NP_001119574</a>
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UniProt ID	<a href="#">P00738</a>
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