



# Anti-HP monoclonal antibody, clone A2 (CABT-BL1834)

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

## PRODUCT INFORMATION

Immunogen	Recombinant protein corresponding to amino acids 19-406 of human HP.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	A2
Conjugate	Unconjugated
Applications	WB,IHC,ELISA
Format	Liquid
Buffer	In Citrate-Tris-HCl buffer, pH 7.0 (0.02% Proclin 300)
Preservative	None
Storage	-20°C, Avoid freeze / thaw cycles

## BACKGROUND

Introduction	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 aspects of the acute phase response. Hemoglobin/haptoglobin complexes are rapidly cleared
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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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