ARG55106
anti-Haptoglobin antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Haptoglobin
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, WB
Specificity	The antibody was raised by the immunogen coresponding to a.a. 296-322 of human haptoglobin which expect recognizes to full length and Haptoglobin beta chain (40 kDa, 245 amino acids unglycosylated 35 kDa).
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Haptoglobin
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 296-322 of Human Haptoglobin.
Conjugation	Un-conjugated
Alternate Names	HPA1S; Haptoglobin; BP; HP2ALPHA2; Zonulin

Application Instructions

Application table

Application	Dilution
FACS	1:10 - 1:50
ICC/IF	1:10 - 1:50
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

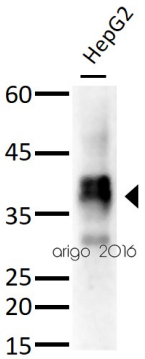
Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

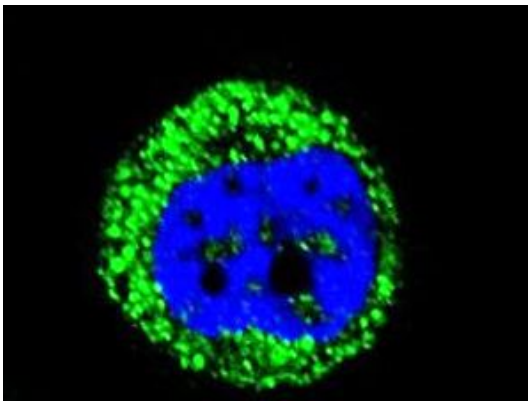
Database links	GeneID: 3240 Human Swiss-port # P00738 Human
Gene Symbol	HP
Gene Full Name	haptoglobin
Background	This gene encodes a preproprotein, which is processed to yield both alpha and beta chains, which subsequently combine as a tetramer to produce haptoglobin. Haptoglobin functions to bind free 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. [provided by RefSeq, Oct 2014]
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; Antioxidant, has antibacterial activity and plays a role in modulating many aspects of the acute phase response. Hemoglobin/haptoglobin complexes are rapidely cleared by the macrophage CD163 scavenger receptor expressed on the surface of liver Kupfer cells through an endocytic lysosomal degradation pathway. [UniProt]
Research Area	Cell Biology and Cellular Response antibody
Calculated Mw	45 kDa

Images



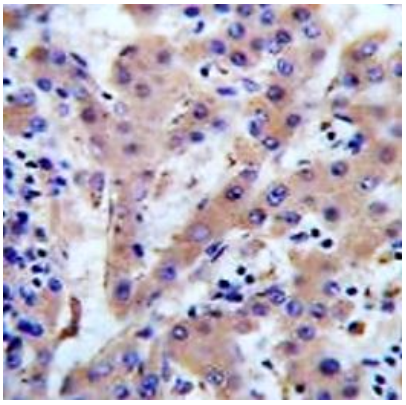
ARG55106 anti-Haptoglobin antibody WB image

Western blot: 30 µg of HepG2 cell lysate stained with ARG55106 anti-Haptoglobin antibody at 1:1000 dilution.



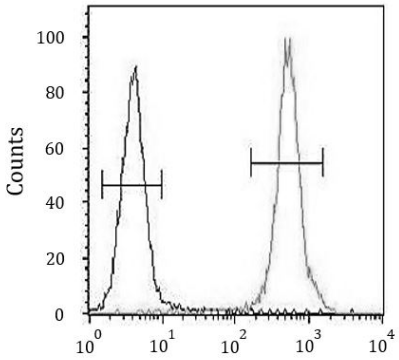
ARG55106 anti-Haptoglobin antibody ICC/IF image

Immunofluorescence: MDA-MB-435 cells stained with ARG55106 anti-Haptoglobin antibody (green). DAPI (blue) for nuclear staining.



ARG55106 anti-Haptoglobin antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human hepatocarcinoma stained with ARG55106 anti-Haptoglobin antibody.



ARG55106 anti-Haptoglobin antibody FACS image

Flow Cytometry: MDA-MB435 cells stained with ARG55106 anti-Haptoglobin antibody (right histogram) or without primary antibody control (left histogram), followed by incubation with FITC labelled secondary antibody.