

ARG83083 Canine / Feline Haptoglobin ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG83083 Canine / Feline Haptoglobin ELISA Kit is an enzyme immunoassay kit for quantitative the Haptoglobin in dog and cat serum, plasma (citrate, heparin) or cell culture .
Tested Reactivity	Cat, Dog
Tested Application	ELISA
Target Name	Haptoglobin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	22.9 ng/ml
Detection Range	125 - 2000 ng/ml
Sample Type	serum, plasma (citrate, heparin) or cell culture.
Sample Volume	100 µl
Precision	Intra-Assay CV: less than 8% Inter-Assay CV: less than 4%

Application Instructions

Assay Time	~2 hour
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

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

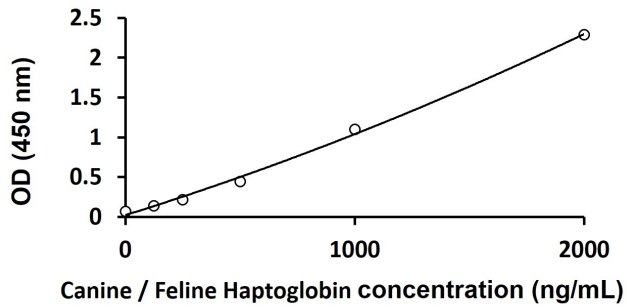
variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2014]

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 antioxidant, has antibacterial activity, and plays a role in modulating many 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. [UniProt]

Highlight

Images



ARG83083 Canine / Feline Haptoglobin ELISA Kit curve image

ARG83083 Canine / Feline Haptoglobin ELISA Kit results of standard run with optical density reading at 450 nm