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Datasheet for ABIN455102 **FTH1 ELISA Kit**

Overview

Quantity:	96 tests
Target:	FTH1
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	This immunoassay kit allows for the specific measurement of Mouse Ferritin concentrations in urine ,serum and plasma.
Sample Type:	Urine, Serum, Plasma
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay recognizes natural Mouse Ferritin.
Cross-Reactivity (Details):	No significant cross-reactivity or interference was observed.
Characteristics:	Mus musculus,Mouse,Ferritin heavy chain,Ferritin H subunit,Fth1,Fth,1.16.3.1

Target Details

Target:	FTH1
Alternative Name:	Fth1 (FTH1 Products)
Background:	Ferritin is an iron-protein complex formed from an intracellular acceptor called Apoferritin.

Target Details

Apo ferritin is a large molecular weight 450,000 protein produced by the liver. Iron as Fe (HO)₃ linked to apo ferritin is then stored in the cytoplasm of the reticuloendothelial system, liver, spleen and bone marrow. Ferritin is the body's iron storage protein functioning primarily as a site for iron storage from which iron may be mobilized in response to such stimuli a dietary change, blood loss or pregnancy. The direct quantitation of serum ferritin offers the physician a convenient and accurate measure of total body iron stores, by means of diagnosing iron-deficiency and anemia due to such causes as inflammation and hepatic or renal disease. In addition, serum ferritin concentration may be useful in detecting iron overload, which may allow the detection of idiopathic hemochromatosis in the precirrhotic storage.

Pathways: [Transition Metal Ion Homeostasis](#)

Application Details

Sample Volume: 100 µL

Plate: Pre-coated

Protocol: This assay employs the quantitative sandwich enzyme immunoassay technique. A monoclonal antibody specific for Ferritin has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any Ferritin present is bound by the immobilized antibody. An enzyme-linked polyclonal antibody specific for Ferritin is added to the wells. Following a wash to remove any unbound antibody-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of Ferritin bound in the initial step. The color development is stopped and the intensity of the color is measured.

Restrictions: For Research Use only

Handling

Storage: 4 °C/-20 °C

Storage Comment: The Standard, Detection Reagent A, Detection Reagent B and the 96-well strip plate should be stored at -20 °C upon being received. The other reagents can be stored at 4 °C.