

Human Ferroportin ELISA Kit | FPN elisa kit

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CATALOG #
AAA17121

REACTIVITY
Human

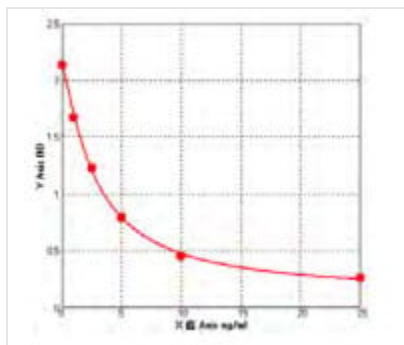
PRODUCT SYNONYMS

Ferroportin; Human Ferroportin ELISA Kit; FPN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of FPN. No significant cross-reactivity or interference between FPN and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between FPN and all the analogues, therefore, cross reaction may still exist in some cases.
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for FPN elisa kit	Principle of the Assay: FPN ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-FPN antibody and an FPN-HRP conjugate. The assay sample and buffer are incubated together with FPN-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the FPN concentration since FPN from samples and FPN-HRP conjugate compete for the anti-FPN antibody binding site. Since the number of sites is limited, as more sites are occupied by FPN from the sample, fewer sites are left to bind FPN-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The FPN concentration in each sample is interpolated from this standard curve. Intended Uses: This FPN ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human FPN. This ELISA kit for research use only, not for therapeutic or diagnostic applications!
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NCBI AND UNIPROT INFORMATION

NCBI GI #	67633296
NCBI GeneID	30061
Molecular Weight	62,542 Da
NCBI Official Full Name	ferroportin 1 variant I, partial
NCBI Official Synonym Full Names	solute carrier family 40 (iron-regulated transporter), member 1
NCBI Official Symbol	SLC40A1
NCBI Official Synonym Symbols	FPN1; HFE4; MTP1; IREG1; MST079; MSTP079; SLC11A3
NCBI Protein Information	solute carrier family 40 member 1; iron regulated gene 1; putative ferroportin 1 variant IIIA; putative ferroportin 1 variant IIIB; solute carrier family 11 (proton-coupled divalent metal ion transporters), member 3
UniProt Protein Name	Solute carrier family 40 member 1
UniProt Gene Name	SLC40A1
UniProt Synonym Gene Names	FPN1; IREG1; SLC11A3; MSTP079
UniProt Entry Name	S40A1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.