

Mouse Ferroportin (FPN) ELISA Kit-Sandwich

Cat. No.: EK6F172

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Mouse Ferroportin (FPN) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse FPN in serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids using a Sandwich ELISA method. For research use only.

Specifications

Assay Type	ELISA-Sandwich
Specificity	The assay kit is specific for Mouse Ferroportin (FPN).
Target Species	Mouse
Species Reactivity	Mouse
Detection Range	0.17-10 ng/mL
Reproducibility	Intra-Assay: CV < 10%; Inter-Assay: CV < 12%
Assay Time	Around 90 min
Sample Requirement	Serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids.

Target Information

Ferroportin is responsible for transporting Fe²⁺ from inside the cell to the outside, playing a crucial role in maintaining systemic iron homeostasis. As the only iron export protein in mammals, Ferroportin (Fpn) has significant physiological importance in mice. It is primarily expressed on the plasma membranes of macrophages, intestinal epithelial cells, and hepatocytes, facilitating the transfer of iron from cells to the plasma and thus ensuring systemic iron balance. Additionally, Fpn is active in other tissues, such as cardiomyocytes, where it is vital for maintaining normal iron homeostasis and cardiac function.

Target/Biomarker	Mouse FPN
Target Synonym	SLC40A1; FPN1; HFE4; IREG1; MTP1; SLC11A3; Solute Carrier Family 40; Member 1; Iron-Regulated Transporter
Gene ID	53945

Shipping and Storage

This product is shipped with gel ice packs. It is recommended to store at 2-8 °C (Up to 6 months).

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.