

10-7585: Monoclonal antibody to Ferroportin-1 (Clone: ABM51D1)

Clonality :	Monoclonal
Clone Name :	ABM51D1
Application :	WB
Reactivity :	Human
Gene :	SLC40A1
Gene ID :	30061
Uniprot ID :	Q9NP59
Format :	Purified
Alternative Name :	SLC40A1,FPN1,IREG1,SLC11A3,MSTP079
Isotype :	Mouse IgG2b Kappa
Immunogen Information :	A partial length recombinant protein from N terminal portion of Ferroportin 1 was used as the immunogen for this antibody.

Description

Ferroportin-1, a principal iron exporter, is involved in transporting iron from the duodenum to the serum, and in iron recycling from reticuloendothelial macrophages into the circulation, respectively. Hepcidin, the key mediator of iron homeostasis produced by liver, negatively controls ferroportin-1 expression levels by a posttranslational mechanism. Ferroportin-1 is found on the basolateral surface of enterocytes and the macrophage cell wall. Dietary iron absorbed by enterocytes is moved into the circulation by ferroportin-1, then circulates are bound to transferrin and delivered to tissues via endocytosis of the iron/transferrin complex. Mutations in ferroportin-1 causes impaired ferroportin delivery to the plasma membrane or decreased iron transport and results in macrophage iron retention whereas others render ferroportin insensitive to hepcidin and cause systemic iron overload. Some of the classical ferroportin disease is characterized by hyperferritinemia, normal transferrin saturation, and iron overload in macrophages.

Product Info

Amount :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Western blot analysis: 2-4µg/ml

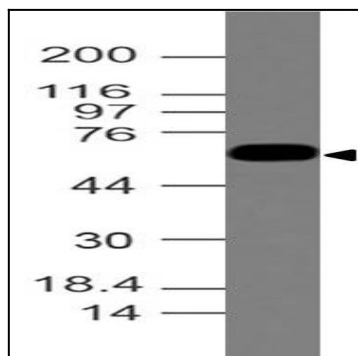


Fig:1- Expression analysis of Ferroportin. Anti-Ferroportin antibody (Clone: ABM51D1) was tested at 2 µg/ml on h Liver lysate.