

Anti-SLC40A1 Antibody [A10A1]

HA601178



Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human
Applications:	WB
Molecular Wt:	Predicted band size: 63 kDa
Clone number:	A10A1

Description: Ferroportin-1, also known as solute carrier family 40 member 1 (SLC40A1) or iron-regulated transporter 1 (IREG1), is a protein that in humans is encoded by the SLC40A1 gene, and is part of the Ferroportin (Fpn) Family. Ferroportin is a transmembrane protein that transports iron from the inside of a cell to the outside of the cell. Ferroportin is the only known iron exporter. After dietary iron is absorbed into the cells of the small intestine, ferroportin allows that iron to be transported out of those cells and into the bloodstream. Fpn also mediates the efflux of iron recycled from macrophages resident in the spleen and liver. Ferroportin is regulated by hepcidin, a hormone produced by the liver; hepcidin binds to Fpn and limits its iron-efflux activity, thereby reducing iron delivery to the blood plasma. Therefore, the interaction between Fpn and hepcidin controls systemic iron homeostasis.

Immunogen: Synthetic peptide within human SLC40A1 aa 257-306 / 571.

Positive control: HEK-293 cell lysate, HepG2 cell lysate, A375 cell lysate, NCCIT cell lysate, Caco-2 cell lysate, SW480 cell lysate.

Subcellular location: Cell membrane, Basolateral cell membrane.

Database links: SwissProt: Q9NP59 Human

Recommended Dilutions:
WB 1:1,000

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

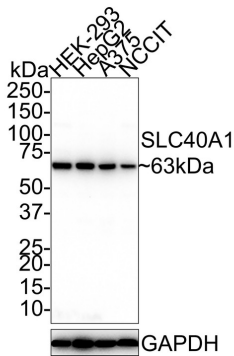
Service mail:support@huabio.cn

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Images

Fig1: Western blot analysis of SLC40A1 on different lysates with Mouse anti-SLC40A1 antibody (HA601178) at 1/1,000 dilution.

Lane 1: HEK-293 cell lysate
Lane 2: HepG2 cell lysate
Lane 3: A375 cell lysate
Lane 4: NCCIT cell lysate



Lysates/proteins at 20 µg/Lane.

Predicted band size: 63 kDa
Observed band size: 63 kDa

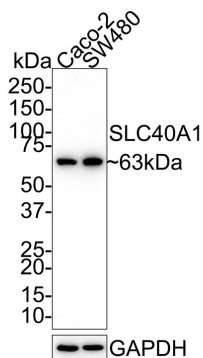
Exposure time: 1 minute 2 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA601178) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Mouse IgG for IP Nano-Secondary Antibody (NBI02H) at 1/5,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of SLC40A1 on different lysates with Mouse anti-SLC40A1 antibody (HA601178) at 1/1,000 dilution.

Lane 1: Caco-2 cell lysate
Lane 2: SW480 cell lysate



Lysates/proteins at 20 µg/Lane.

Predicted band size: 63 kDa
Observed band size: 63 kDa

Exposure time: 3 minutes 10 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA601178) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Mouse IgG for IP Nano-Secondary Antibody (NBI02H) at 1/5,000 dilution was used for 1 hour at room temperature.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Hao L et al. SLC40A1 Mediates Ferroptosis and Cognitive Dysfunction in Type 1 Diabetes. *Neuroscience*. 2021 May
2. Huang B et al. Dapagliflozin Ameliorates Renal Tubular Ferroptosis in Diabetes via SLC40A1 Stabilization. *Oxid Med Cell Longev*. 2022 Aug

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