

# Anti-SLC27A4 Antibody [JE58-29]

HA720001



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IHC-P, FC
<b>Molecular Wt:</b>	Predicted band size: 72 kDa
<b>Clone number:</b>	JE58-29

<b>Description:</b>	This gene encodes a member of a family of fatty acid transport proteins, which are involved in translocation of long-chain fatty acids cross the plasma membrane. This protein is expressed at high levels on the apical side of mature enterocytes in the small intestine, and appears to be the principal fatty acid transporter in enterocytes. Clinical studies suggest this gene as a candidate gene for the insulin resistance syndrome. Mutations in this gene have been associated with ichthyosis prematurity syndrome.
<b>Immunogen:</b>	Recombinant protein within human SLC27A4 aa 393-643.
<b>Positive control:</b>	MCF7 cell lysate, mouse colon tissue lysate, mouse pancreas tissue lysate, rat colon tissue lysate, rat liver tissue lysate, rat kidney tissue, mouse small intestine tissue, human rectal cancer tissue, A549.
<b>Subcellular location:</b>	Endoplasmic reticulum membrane.
<b>Database links:</b>	SwissProt: Q6P1M0 Human   Q91VE0 Mouse Entrez Gene: 311839 Rat
<b>Recommended Dilutions:</b>	
<b>WB</b>	1:1,000
<b>IHC-P</b>	1:50-1:200
<b>FC</b>	1:50-1:100
<b>Storage Buffer:</b>	1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
<b>Storage Instruction:</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.
<b>Purity:</b>	Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

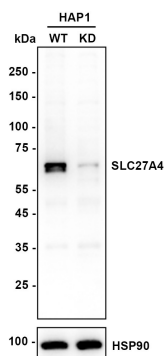
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## Images

**Fig1:** Western blot analysis of SLC27A4 on different lysates with Rabbit anti-SLC27A4 antibody (HA720001) at 1/1,000 dilution.

Lane 1: HAP1-parental cell lysate  
Lane 2: HAP1-SLC27A4 KD cell lysate



Lysates/proteins at 10 µg/Lane.

Predicted band size: 70 kDa

Observed band size: 70 kDa

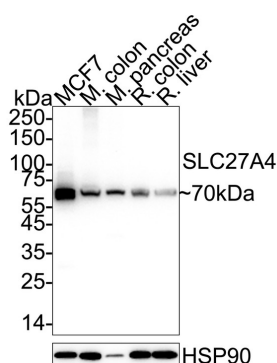
Exposure time: 60 seconds; ECL: K1801;

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 (HA720001) at 1/1,000 dilution was used in K1803 at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

**Fig2:** Western blot analysis of SLC27A4 on different lysates with Rabbit anti-SLC27A4 antibody (HA720001) at 1/1,000 dilution.

Lane 1: MCF7 cell lysate (20 µg/Lane)  
Lane 2: Mouse colon tissue lysate (40 µg/Lane)  
Lane 3: Mouse pancreas tissue lysate (40 µg/Lane)  
Lane 4: Rat colon tissue lysate (40 µg/Lane)  
Lane 5: Rat liver tissue lysate (40 µg/Lane)



Predicted band size: 72 kDa

Observed band size: 70 kDa

Exposure time: 25 seconds; ECL: K1801;

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 (HA720001) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

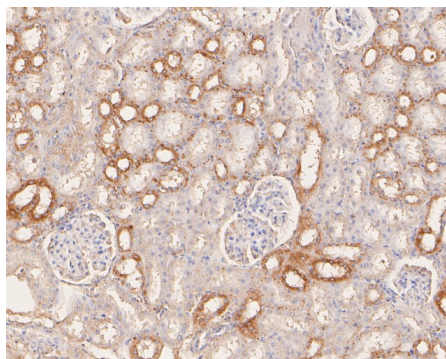
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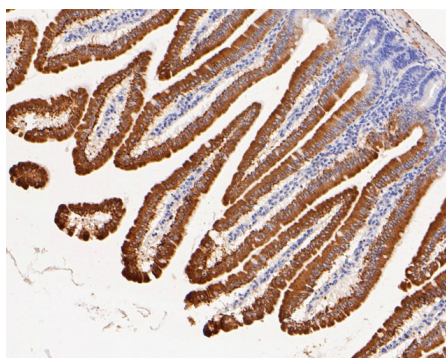
Technical:0086-571-89986345

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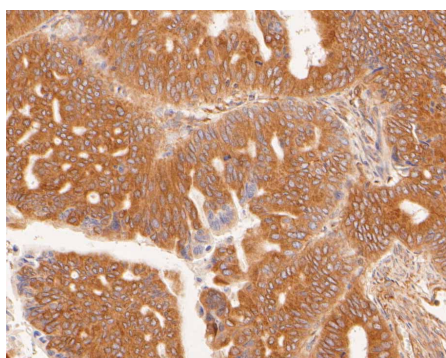
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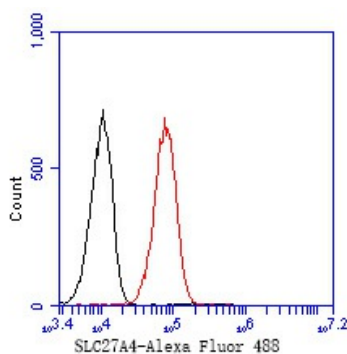
**Fig3:** Immunohistochemical analysis of paraffin-embedded rat kidney tissue using anti-SLC27A4 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA720001, 1/50) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



**Fig4:** Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue using anti-SLC27A4 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA720001, 1/200) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



**Fig5:** Immunohistochemical analysis of paraffin-embedded human rectal cancer tissue using anti-SLC27A4 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA720001, 1/50) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



**Fig6:** Flow cytometric analysis of SLC27A4 was done on A549 cells. The cells were fixed, permeabilized and stained with the primary antibody (HA720001, 1/50) (red). After incubation of the primary antibody at room temperature for an hour, the cells were stained with a Alexa Fluor 488-conjugated Goat anti-Rabbit IgG Secondary antibody at 1/1000 dilution for 30 minutes. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

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

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### Background References

1. Saldaña-García N. et. al. A new SLC27A4 mutation associated with ichthyosis prematurity syndrome and compartment syndrome. *An Pediatr (Barc)*. 2020 May
2. Yen MC. et. al. Solute Carrier Family 27 Member 4 (SLC27A4) Enhances Cell Growth, Migration, and Invasion in Breast Cancer Cells. *Int J Mol Sci*. 2018 Nov

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