

**Anti-SLC27A4 Rabbit Monoclonal Antibody**  
**Catalog # ABO16535****Specification****Anti-SLC27A4 Rabbit Monoclonal Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC, IF, ICC, IP   |
| Primary Accession | <a href="#">Q6P1M0</a> |
| Host              | Rabbit                 |
| Isotype           | IgG                    |
| Reactivity        | Human                  |
| Clonality         | Monoclonal             |
| Format            | Liquid                 |

**Description**

Anti-SLC27A4 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP applications. This antibody reacts with Human.

**Anti-SLC27A4 Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 10999

**Other Names**

Long-chain fatty acid transport protein 4, FATP-4, Fatty acid transport protein 4, Arachidonate--CoA ligase, SLC27A4 ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=10998](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=10998))  
HGNC:10998

**Calculated MW**

65 kDa KDa

**Application Details**

WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>IP 1:50

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human SLC27A4

**Purification**

Affinity-chromatography

Storage

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-SLC27A4 Rabbit Monoclonal Antibody - Protein Information**

**Name** SLC27A4 ([HGNC:10998](#))

### Function

Mediates the levels of long-chain fatty acids (LCFA) in the cell by facilitating their transport across cell membranes (PubMed:[10518211](http://www.uniprot.org/citations/10518211), PubMed:[12556534](http://www.uniprot.org/citations/12556534), PubMed:[20448275](http://www.uniprot.org/citations/20448275), PubMed:[21395585](http://www.uniprot.org/citations/21395585), PubMed:[22022213](http://www.uniprot.org/citations/22022213)). Appears to be the principal fatty acid transporter in small intestinal enterocytes (PubMed:[20448275](http://www.uniprot.org/citations/20448275)). Also functions as an acyl-CoA ligase catalyzing the ATP-dependent formation of fatty acyl-CoA using LCFA and very-long-chain fatty acids (VLCFA) as substrates, which prevents fatty acid efflux from cells and might drive more fatty acid uptake (PubMed:[22022213](http://www.uniprot.org/citations/22022213), PubMed:[24269233](http://www.uniprot.org/citations/24269233)). Plays a role in the formation of the epidermal barrier. Required for fat absorption in early embryogenesis (By similarity). Probably involved in fatty acid transport across the blood barrier (PubMed:[21395585](http://www.uniprot.org/citations/21395585)). Indirectly inhibits RPE65 via substrate competition and via production of VLCFA derivatives like lignoceroyl-CoA. Prevents light-induced degeneration of rods and cones (By similarity).

### Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein

### Tissue Location

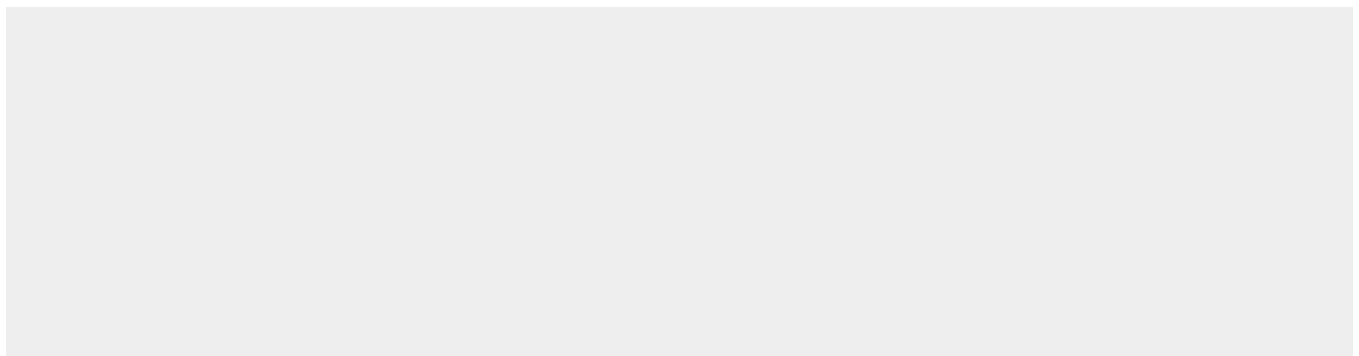
Expressed at highest levels in brain, testis, colon and kidney. Expressed at medium levels in heart and liver, small intestine and stomach. Expressed at low levels in peripheral leukocytes, bone marrow, skeletal muscle and aorta. Expressed in adipose tissue (PubMed:24269233, PubMed:9878842). Expressed in brain gray matter (PubMed:21395585).

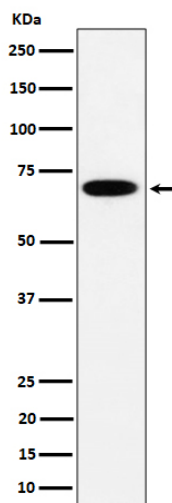
### Anti-SLC27A4 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

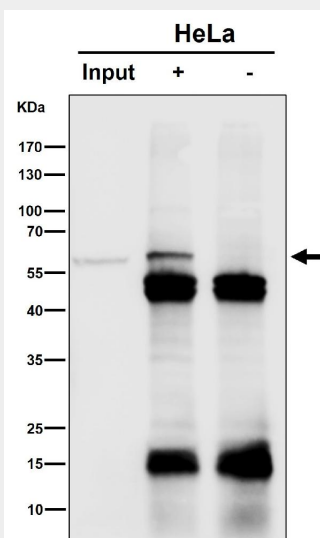
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-SLC27A4 Rabbit Monoclonal Antibody - Images





Western blot analysis of SLC27A4 expression in HepG2 cell lysate.



Immunoprecipitate (IP) analysis using the Antibody at 1:50 dilution. (wb at 1:1K dilution)