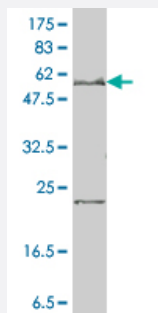


SLC27A4 monoclonal antibody (M01), clone 1F4-1B10

Catalog # H00010999-M01

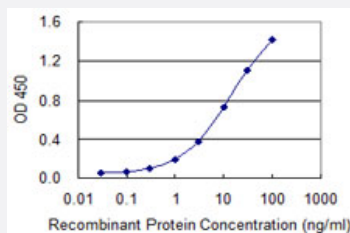
Size 100 ug

Applications



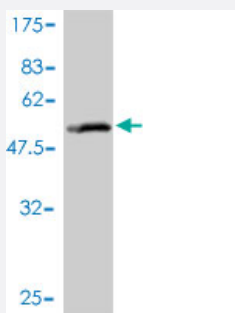
Western Blot (Cell lysate)

SLC27A4 monoclonal antibody (M01), clone 1F4-1B10 Western Blot analysis of SLC27A4 expression in HeLa (Cat # L013V1).



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SLC27A4 is 0.1 ng/ml as a capture antibody.



Western Blot detection against Immunogen (51.81 kDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a full length recombinant SLC27A4.

Immunogen	SLC27A4 (AAH09959.1, 1 a.a. ~ 237 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MPLTLSTLLQPGRWTGRRAAEPTPGHNAAWSLSGGGA AVLQAGAETALDPGGILPVVPLLGWRLALHPGLHQDHQAYLTGDLVLMDELGYLYFRDRTGDTFRWKGENVSTTEVEGTLSRLLDMADVA VYGVEVPGTEGRAGMAAVASPTGNCDLERFAQVLEKELPLYARPIFLRLLPELHKTGT YKFQKTE LRKEGFDPAWKDPLFLYLD AQKGRYVPLDQEAYSRIQAGEEKL
Host	Mouse
Reactivity	Human
Isotype	IgG1 kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (51.81 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

SLC27A4 monoclonal antibody (M01), clone 1F4-1B10 Western Blot analysis of SLC27A4 expression in HeLa (Cat # L013V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SLC27A4 is 0.1 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — SLC27A4

Entrez GeneID [10999](#)

GeneBank Accession#	BC009959
Protein Accession#	AAH09959.1
Gene Name	SLC27A4
Gene Alias	ACSVL4, FATP4
Gene Description	solute carrier family 27 (fatty acid transporter), member 4
Omim ID	604194
Gene Ontology	Hyperlink
Gene Summary	O
Other Designations	OTTHUMP00000022264 fatty acid transport protein 4

Publication Reference

- [Adipocyte-induced CD36 expression drives ovarian cancer progression and metastasis.](#)

Ladanyi A, Mukherjee A, Kenny HA, Johnson A, Mitra AK, Sundaresan S, Nieman KM, Pascual G, Benitah SA, Montag A, Yamada SD, Abumrad NA, Lengyel E.

Oncogene 2018 Apr; 37(17):2285.

Application: IF, WB, Human, HeyAB, SKOV3ip1, OVCAR-5 cells

- [Placental Lipid Transport.](#)

Dubé E, Desparois G, Lafond J.

Methods in Molecular Biology (Clifton, N.J.) 2017 Sep; 1710:305.

Application: WB-Ti, Human, Human placenta

- [The overall fatty acid absorption controlled by basolateral chylomicron excretion under regulation of p-JNK1.](#)

Stremmel W, Staffer S, Wannhoff A, Pathil A.

Biochimica et Biophysica Acta 2017 Jun; 1862(9):917.

Application: WB-Ce, Human, Caco-2 cells

- [Influence of high fat diet and resveratrol supplementation on placental fatty acid uptake in the Japanese macaque.](#)

O'Tierney-Ginn P, Roberts V, Gillingham M, Walker J, Glazebrook PA, Thornburg KL, Grove K, Frias AE.

Placenta 2015 Aug; 36(8):903.

Application: WB-Ti, Japanese macaques, Placental

- [Palmitate activation by fatty acid transport protein 4 as a model system for hepatocellular apoptosis and steatosis.](#)

Seessle J, Liebisch G, Schmitz G, Stremmel W, Chamulitrat W.

Biochimica et Biophysica Acta 2015 May; 1851(5):549.

Application: IFF, WB, WB-Tr, Human, Mouse, Huh-7 cells, Livers

- [Plasma membrane phospholipase A2 controls hepatocellular fatty acid uptake and is responsive to pharmacological modulation: implications for nonalcoholic steatohepatitis.](#)

Stremmel W, Staffer S, Wannhoff A, Pathil A, Chamulitrat W.

FASEB Journal 2014 Jul; 28(7):3159.

Application: WB-Ce, Human, HepG2 cells

- [Interactions between FATP4 and ichthyin in epidermal lipid processing may provide clues to the pathogenesis of autosomal recessive congenital ichthyosis.](#)

Li H, Vahlquist A, Torma H.

Journal of Dermatological Science 2012 Dec; 69(3):195.

Application: IF, Human, Skin

- [Modulation of fatty acid transport and metabolism by maternal obesity in the human full-term placenta.](#)

Dubé E, Gravel A, Martin C, Desparois G, Moussa I, Ethier-Chiasson M, Forest JC, Giguère Y, Masse A, Lafond J.

Biology of Reproduction 2012 Jul; 87(1):14.

Application: WB-Ti, Human, Human placental tissues

- [Adipokines promote lipotoxicity in human skeletal muscle cells.](#)

Taube A, Lambernd S, van Echten-Deckert G, Eckardt K, Eckel J.

Archives of Physiology and Biochemistry 2012 Jul; 118(3):92.

Application: WB, Human, SkMC cells

- [Mutations in the Fatty Acid Transport Protein 4 Gene Cause the Ichthyosis Prematurity Syndrome.](#)

Klar J, Schweiger M, Zimmerman R, Zechner R, Li H, Torma H, Vahlquist A, Bouadjar B, Dahl N, Fischer J.

American Journal of Human Genetics 2009 Aug; 78(6):561.

Application: IF, IHC, WB-Ti, Human, Human skin biopsies

- [Fatty acid transport and activation and the expression patterns of genes involved in fatty acid trafficking.](#)

Sandoval A, Fraisl P, Arias-Barrau E, DiRusso CD, Singer D, Sealls W, Black PN.

Archives of Biochemistry and Biophysics 2008 Jun; 477(2):363.

Application: WB-Ce, Humna, Caco-2, HepG2 cells

Pathway

- [PPAR signaling pathway](#)

Disease

- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)
- [Hyperparathyroidism](#)