SANTA CRUZ BIOTECHNOLOGY, INC.

SLC35F5 (F-24): sc-134009

BACKGROUND

SLC35F5 (solute carrier family 35 member F5), also known as hepatitis C virus NS5A-transactivated protein 3, is a 523 amino acid multi-pass membrane protein that belongs to the SLC35F solute transporter family. Existing as two alternatively spliced isoforms, SLC35F5 functions as a putative solute transporter. The gene encoding SLC35F5 maps to human chromosome 2, which houses over 1,400 genes and comprises nearly 8% of the human genome. Harlequin icthyosis, a rare and morbid skin deformity, is associated with mutations in the chromosome 2-localized ABCA12 gene, while the lipid metabolic disorder sitosterolemia is associated with defects in the ABCG5 and ABCG8 genes, which also map to chromosome 2.

REFERENCES

1. Yunis, J.J. and Prakash, O. 1982. The origin of man: a chromosomal pictorial legacy. Science 215: 1525-1530.
2. IJdo, J.W., et al. 1991. Origin of human chromosome 2: an ancestral telomere-telomere fusion. Proc. Natl. Acad. Sci. USA 88: 9051-9055.
3. Avarello, R., et al. 1992. Evidence for an ancestral alphoid domain on the long arm of human chromosome 2. Hum. Genet. 89: 247-249.
4. Ishida, N. and Kawakita, M. 2004. Molecular physiology and pathology of the nucleotide sugar transporter family (SLC35). Pflugers Arch. 447: 768-775.
5. Hillier, L.W., et al. 2005. Generation and annotation of the DNA sequences of human chromosomes 2 and 4. Nature 434: 724-731.
6. Matsuyama, R., et al. 2006. Predicting 5-fluorouracil chemosensitivity of liver metastases from colorectal cancer using primary tumor specimens: three-gene expression model predicts clinical response. Int. J. Cancer. 119: 406-413.
7. Nishimura, M., et al. 2009. Tissue-specific mRNA expression profiles of human solute carrier 35 transporters. Drug Metab. Pharmacokinet. 24: 91-99.

CHROMOSOMAL LOCATION

Genetic locus: SLC35F5 (human) mapping to 2q14.1; Slc35f5 (mouse) mapping to 1 E3.

SOURCE

SLC35F5 (F-24) is a Protein A purified rabbit polyclonal antibody raised against synthetic SLC35F5 peptide of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

APPLICATIONS

SLC35F5 (F-24) is recommended for detection of SLC35F5 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

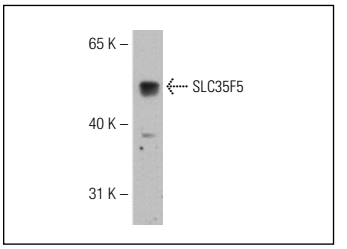
Suitable for use as control antibody for SLC35F5 siRNA (h): sc-94372, SLC35F5 siRNA (m): sc-153546, SLC35F5 shRNA Plasmid (h): sc-94372-SH, SLC35F5 shRNA Plasmid (m): sc-153546-SH, SLC35F5 shRNA (h) Lentiviral Particles: sc-94372-V and SLC35F5 shRNA (m) Lentiviral Particles: sc-153546-V.

Molecular Weight of SLC35F5: 59 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



SLC35F5 (F-24): sc-134009. Western blot analysis of human SLC35F5 transfected 293T whole cell lysate.

RESEARCH USE

For research use only, not for use in diagnostic procedures.