# SLC35F5 (Y-13): sc-137773



The Power to Question

### **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**

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- Ishida, N., et al. 2004. Molecular physiology and pathology of the nucleotide sugar transporter family (SLC35). Pflugers Arch. 447: 768-775.
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- 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.
- 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 (Y-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of SLC35F5 of human origin.

### **PRODUCT**

Each vial contains 100  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-137773 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

# **STORAGE**

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

### **APPLICATIONS**

SLC35F5 (Y-13) is recommended for detection of SLC35F5 isoforms 1 and 2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other SLC35F family members.

SLC35F5 (Y-13) is also recommended for detection of SLC35F5 isoforms 1 and 2 in additional species, including canine, bovine, porcine and avian.

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.

### **RESEARCH USE**

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

### **PROTOCOLS**

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

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