

Flipt1 (E-13): sc-161599

BACKGROUND

Organic ion transporters are transmembrane proteins that are essential to excretion of xenobiotics, such as drugs, toxins and metabolites. Flipt1 (fly-like putative transporter 1), also known as SLC22A15 (solute carrier family 22 member 15) is a 547 amino acid multi-pass membrane protein that is a member of the organic ion transporter family. Flipt1 is expressed at high levels in liver, skeletal muscle, heart, white blood cells and placenta and is also expressed in several intestinal tumor cell lines. The gene encoding Flipt1 maps to human chromosome 1, which is the largest human chromosome spanning about 260 million base pairs and making up 8% of the human genome. There are about 3,000 genes on chromosome 1, and considering the great number of genes there are also a large number of diseases associated with chromosome 1. There are two isoforms of Flipt1 that are produced as a result of alternative splicing events.

REFERENCES

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3. You, G. 2004. The role of organic ion transporters in drug disposition: an update. *Curr. Drug Metab.* 5: 55-62.
4. Girardin, F. 2006. Membrane transporter proteins: a challenge for CNS drug development. *Dialogues Clin. Neurosci.* 8: 311-321.
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7. Duan, P. and You, G. 2010. Short-term regulation of organic anion transporters. *Pharmacol. Ther.* 125: 55-61.
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CHROMOSOMAL LOCATION

Genetic locus: SLC22A15 (human) mapping to 1p13.1; Slc22a15 (mouse) mapping to 3 F2.2.

SOURCE

Flipt1 (E-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Flipt1 of human origin.

STORAGE

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

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-161599 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Flipt1 (E-13) is recommended for detection of Flipt1 of human origin and SLC22A15 of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with isoform Flipt1-2.

Flipt1 (E-13) is also recommended for detection of Flipt1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Flipt1 siRNA (h): sc-88724, SLC22A15 siRNA (m): sc-153498, Flipt1 shRNA Plasmid (h): sc-88724-SH, SLC22A15 shRNA Plasmid (m): sc-153498-SH, Flipt1 shRNA (h) Lentiviral Particles: sc-88724-V and SLC22A15 shRNA (m) Lentiviral Particles: sc-153498-V.

Molecular Weight of Flipt1: 61 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (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.