

# SLC10A7 (S-13): sc-160094

## BACKGROUND

The SLC10 family of sodium/bile salt cotransporters contains over 50 members in animal, plant and bacterial species. SLC10A7 (solute carrier family 10 [sodium/bile acid cotransporter family], member 7), also known as P7, is a 358 amino acid multi-pass membrane protein belonging to the sodium: bile acid symporter family. Existing as seven alternatively spliced isoforms, SLC10A7 is expressed at high levels in liver and lung, moderate levels in placenta, kidney, spleen, and thymus, and low levels in heart, prostate, and testis. A few members of the sodium:bile acid symporter family, such as NTCP (also known as SLC10A1) and Asbt (also known as SLC10A2), are involved in maintaining enterohepatic circulation of bile acids by mediating the first step of active bile transport through membrane barriers of liver and intestine. Other family members, including SLC10A6, play an important role in the cellular delivery of specific prohormones in testes, placenta, adrenal gland and other peripheral tissues. Orphan carriers such as SLC10A7 are uncharacterized and their functions unknown.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: SLC10A7 (human) mapping to 4q31.22; Slc10a7 (mouse) mapping to 8 C1.

## SOURCE

SLC10A7 (S-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SLC10A7 of human origin.

## 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-160094 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

SLC10A7 (S-13) is recommended for detection of SLC10A7 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)], 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 other SLC10A family members.

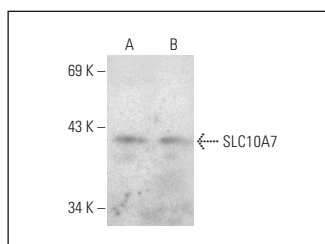
SLC10A7 (S-13) is also recommended for detection of SLC10A7 in additional species, including equine, canine, porcine and avian.

Suitable for use as control antibody for SLC10A7 siRNA (h): sc-89010, SLC10A7 siRNA (m): sc-153488, SLC10A7 shRNA Plasmid (h): sc-89010-SH, SLC10A7 shRNA Plasmid (m): sc-153488-SH, SLC10A7 shRNA (h) Lentiviral Particles: sc-89010-V and SLC10A7 shRNA (m) Lentiviral Particles: sc-153488-V.

Molecular Weight of SLC10A7: 36-39 kDa.

Positive Controls: mouse liver extract : sc-2256, PC-3 cell lysate: sc-2220 or JAR cell lysate: sc-2276.

## DATA



SLC10A7 (S-13): sc-160094. Western blot analysis of SLC10A7 expression in JAR (A) and PC-3 (B) whole cell lysates.

## STORAGE

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

## RESEARCH USE

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