

# ASNSD1 (T-14): sc-160968

## BACKGROUND

ASNSD1 (asparagine synthetase domain containing 1), also known as HCV NS3-transactivated protein 1 or NS3TP1, is a 643 amino acid protein containing one asparagine synthetase domain and a glutamine amidotransferase type-2 domain. The gene encoding ASNSD1 maps to human chromosome 2, the second largest human chromosome, which consists of 237 million bases, encodes over 1,400 genes and makes up approximately 8% of the human genome. A number of genetic diseases are linked to genes on chromosome 2. Harlequin ichthyosis, a rare and morbid skin deformity, is associated with mutations in the ABCA12 gene. The lipid metabolic disorder sitosterolemia is associated with ABCG5 and ABCG8. An extremely rare recessive genetic disorder, Alström syndrome is due to mutations in the ALMS1 gene. Interestingly, chromosome 2 contains what appears to be a vestigial second centromere and vestigial telomeres which gives credence to the hypothesis that human chromosome 2 is the result of an ancient fusion of two ancestral chromosomes seen in modern form today in apes.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: ASNSD1 (human) mapping to 2q32.2; Asnsd1 (mouse) mapping to 1 C1.1.

## SOURCE

ASNSD1 (T-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ASNSD1 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-160968 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

ASNSD1 (T-14) is recommended for detection of ASNSD1 of mouse, rat and human 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).

ASNSD1 (T-14) is also recommended for detection of ASNSD1 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for ASNSD1 siRNA (h): sc-94342, Asnsd1 siRNA (m): sc-141302, ASNSD1 shRNA Plasmid (h): sc-94342-SH, Asnsd1 shRNA Plasmid (m): sc-141302-SH, ASNSD1 shRNA (h) Lentiviral Particles: sc-94342-V and Asnsd1 shRNA (m) Lentiviral Particles: sc-141302-V.

Molecular Weight of ASNSD1: 72 kDa.

Positive Controls: mouse brain extract: sc-2253.

## 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.

## 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.