# DUS3L (N-20): sc-246486



The Power to Question

#### **BACKGROUND**

DUS3L (tRNA-dihydrouridine synthase 3-like), also known as DUS3 or FLJ13896, is a 650 amino acid member of the DUS protein family. Utilizing FAD as a cofactor, DUS3L catalyzes the synthesis of dihydrouridine, a modified base found in the D-loop of most tRNAs. DUS3L contains two  $C_3H_1$ -type zinc fingers and is expressed as three isoforms produced by alternative splicing events. The gene that encodes DUS3L maps to human chromosome 19, which consists of approximately 63 million bases and makes up over 2% of human genomic DNA. Chromosome 19 includes a diversity of interesting genes and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin superfamily members including the killer cell and leukocyte lg-like receptors, a number of ICAMs, the CEACAM and PSG family, and Fc $\alpha$  receptors.

# **REFERENCES**

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# **CHROMOSOMAL LOCATION**

Genetic locus: DUS3L (human) mapping to 19p13.3.

#### **SOURCE**

DUS3L (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of DUS3L of human origin.

#### **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-246486 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

DUS3L (N-20) is recommended for detection of DUS3L of 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); non cross-reactive with DUS1L, DUS2L or DUS4L.

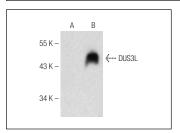
Suitable for use as control antibody for DUS3L siRNA (h): sc-97628, DUS3L shRNA Plasmid (h): sc-97628-SH and DUS3L shRNA (h) Lentiviral Particles: sc-97628-V.

Molecular Weight of DUS3L isoforms: 73/53/46 kDa. Positive Controls: DUS3L (m): 293T Lysate: sc-119862.

# **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) with UltraCruz™ Mounting Medium: sc-24941.

### **DATA**



DUS3L (N-20): sc-246486. Western blot analysis of DUS3L expression in non-transfected: sc-117752 (A) and mouse DUS3L transfected: sc-119862 (B) 293T 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.

# **PROTOCOLS**

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