# C21orf93 (N-13): sc-83595



The Power to Question

#### **BACKGROUND**

The smallest of the human chromosomes, 21, makes up about 1.5% of the human genome. Chromosome 21 contains nearly 300 genes and 47 million base pairs. Down syndrome, also known as trisomy 21, is the disease most commonly associated with chromosome 21. Alzheimer's disease, Jervell and Lange-Nielsen syndrome and amyotrophic lateral sclerosis are also associated with chromosome 21. Translocations are found to occur between chromosome 21 and 8, and chromosome 21 and 12 in certain leukemias. The C21orf93 gene product has been provisionally designated C21orf93 pending further characterization.

# **REFERENCES**

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- 8. Peterson, L.F., et al. 2007. Acute myeloid leukemia with the 8q22;21q22 translocation: secondary mutational events and alternative t(8;21) transcripts. Blood 110: 799-805.
- Ryoo, S.R., et al. 2007. DYRK1A-mediated Hyperphosphorylation of Tau: A functional link between Down syndrome and Alzheimer's disease. J. Biol. Chem. 282: 34850-34857.

# **CHROMOSOMAL LOCATION**

Genetic locus: C21orf93 (human) mapping to 21q22.3.

# **SOURCE**

C21orf93 (N-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the N-terminus of C21orf93 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-83595 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

C21orf93 (N-13) is recommended for detection of C21orf93 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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).

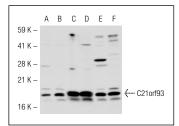
Suitable for use as control antibody for C21orf93 siRNA (h): sc-91473, C21orf93 shRNA Plasmid (h): sc-91473-SH and C21orf93 shRNA (h) Lentiviral Particles: sc-91473-V.

Positive Controls: SW-13 cell lysate: sc-24778, HEL 92.1.7 cell lysate: sc-2270 or IMR-32 cell lysate: sc-2409.

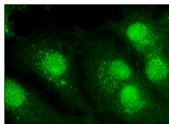
# **RECOMMENDED SECONDARY REAGENTS**

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

# DATA







C21orf93 (N-13): sc-83595. Immunofluorescence staining of formalin-fixed Hep G2 cells showing nuclear localization.

# **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.