

C2orf47 (C-13): sc-240125

BACKGROUND

Chromosome 2, the second largest human chromosome, consists of 237 million bases encoding 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. The C2orf47 gene product has been provisionally designated C2orf47 pending further characterization.

CHROMOSOMAL LOCATION

Genetic locus: C2orf47 (human) mapping to 2q33.1; 9430016H08Rik (mouse) mapping to 1 C1.3.

SOURCE

C2orf47 (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of C2orf47 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-240125 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

C2orf47 (C-13) is recommended for detection of C2orf47 of human origin, 9430016H08Rik of mouse origin and MGC94335 of rat 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).

C2orf47 (C-13) is also recommended for detection of C2orf47 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for C2orf47 siRNA (h): sc-94540, 9430016H08Rik siRNA (m): sc-140550, C2orf47 shRNA Plasmid (h): sc-94540-SH, 9430016H08Rik shRNA Plasmid (m): sc-140550-SH, C2orf47 shRNA (h) Lentiviral Particles: sc-94540-V and 9430016H08Rik shRNA (m) Lentiviral Particles: sc-140550-V.

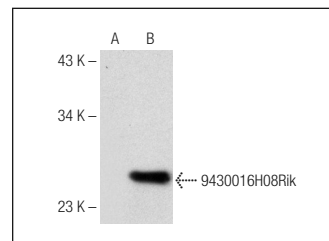
Molecular Weight of C2orf47: 33 kDa.

Positive Controls: C2orf47 (m): 293T Lysate: sc-118080.

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

DATA



C2orf47 (C-13): sc-240125. Western blot analysis of 9430016H08Rik expression in non-transfected: sc-117752 (A) and mouse 9430016H08Rik transfected: sc-118080 (B) 293T whole cell lysates.

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.



Try **C2orf47 (D-12): sc-390662**, our highly recommended monoclonal alternative to C2orf47 (C-13).