C2orf60 (N-20): sc-242176



The Power to Question

BACKGROUND

C2orf60 (chromosome 2 open reading frame 60), also known as JmjC domain-containing protein C2orf60, FLJ37953 or MGC70509, is a 315 amino acid protein that exists as 2 alternatively spliced isoforms that are encoded by a gene that maps to human chromosome 2q33.1. As the second largest human chromosome, chromosome 2 makes up approximately 8% of the human genome and contains 237 million bases encoding over 1,400 genes. A number of genetic diseases are linked to genes on chromosome 2. Harlequin icthyosis, a rare 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, Alstrom syndrome, is related to mutations in the ALMS1 gene. Chromosome 2 contains a probable vestigial second centromere as well as vestigial telomeres, which gives credence to the hypothesis that human chromosome 2 formed as a result of an ancient fusion of two ancestral chromosomes, which are still present in modern day apes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TYW5 (human) mapping to 2q33.1; 1110034B05Rik (mouse) mapping to 1 C1.3.

SOURCE

C2orf60 (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of C2orf60 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-242176 P, (100 μ g 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

C2orf60 (N-20) is recommended for detection of C2orf60 of human origin, 1110034B05Rik of mouse origin and the corresponding rat homolog by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ 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).

C2orf60 (N-20) is also recommended for detection of C2orf60 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for C2orf60 siRNA (h): sc-94863, 1110034B05Rik siRNA (m): sc-108179, C2orf60 shRNA Plasmid (h): sc-94863-SH, 1110034B05Rik shRNA Plasmid (m): sc-108179-SH, C2orf60 shRNA (h) Lentiviral Particles: sc-94863-V and 1110034B05Rik shRNA (m) Lentiviral Particles: sc-108179-V.

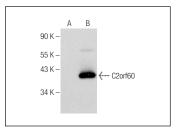
Molecular Weight of C2orf60 isoform 1/2: 37/18 kDa.

Positive Controls: C2orf60 (h) 293T whole cell lysate: sc-372913.

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



C2orf60 (N-20): sc-242176. Western blot analysis of C2orf60 expression in non-transfected: sc-117752 (A) and human C2orf60 transfected: sc-372913 (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.