# C2orf76 (Q-18): sc-242184



The Power to Question

## **BACKGROUND**

C2orf76 (chromosome 2 open reading frame 76), also known as AIM29 or MGC104437, is a 126 amino acid protein belonging to the UPF0538 family. C2orf76 is encoded by a gene that maps to human chromosome 2q14.2. 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.

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#### **CHROMOSOMAL LOCATION**

Genetic locus: C2orf76 (human) mapping to 2q14.2; 3110009E18Rik (mouse) mapping to 1 E2.3.

## **SOURCE**

C2orf76 (Q-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of C2orf76 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-242184 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## **APPLICATIONS**

C2orf76 (Q-18) is recommended for detection of C2orf76 of human origin, 3110009E18Rik of mouse origin and the corresponding rat homolog 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).

C2orf76 (Q-18) is also recommended for detection of C2orf76 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for C2orf76 siRNA (h): sc-94481, 3110009E18Rik siRNA (m): sc-108899, C2orf76 shRNA Plasmid (h): sc-94481-SH, 3110009E18Rik shRNA Plasmid (m): sc-108899-SH, C2orf76 shRNA (h) Lentiviral Particles: sc-94481-V and 3110009E18Rik shRNA (m) Lentiviral Particles: sc-108899-V.

Molecular Weight of C2orf76: 15 kDa.

# **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, \*\*D0 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.

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