

C2orf29 (K-15): sc-139235

BACKGROUND

C2orf29 (chromosome 2 open reading frame 29), also known as C40, is a 510 amino acid protein that belongs to the UPF0760 family and is encoded by a gene that maps to human chromosome 2q11.2. 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 ichthyosis, 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, Alström 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.

CHROMOSOMAL LOCATION

Genetic locus: C2orf29 (human) mapping to 2q11.2; D1Bwg0212e (mouse) mapping to 1 B.

SOURCE

C2orf29 (K-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of C2orf29 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-139235 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

C2orf29 (K-15) is recommended for detection of C2orf29 of human origin, D1Bwg0212e of mouse origin and RGD1560909 of rat origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

C2orf29 (K-15) is also recommended for detection of C2orf29 in additional species, including equine, canine, porcine and avian.

Suitable for use as control antibody for C2orf29 siRNA (h): sc-94334, D1Bwg0212e siRNA (m): sc-142800, C2orf29 shRNA Plasmid (h): sc-94334-SH, D1Bwg0212e shRNA Plasmid (m): sc-142800-SH, C2orf29 shRNA (h) Lentiviral Particles: sc-94334-V and D1Bwg0212e shRNA (m) Lentiviral Particles: sc-142800-V.

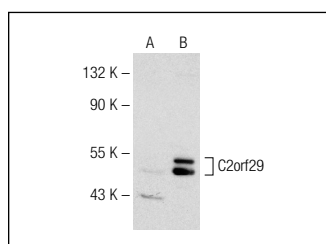
Molecular Weight of C2orf29: 55 kDa.

Positive Controls: C2orf29 (h): 293T Lysate: sc-116871.

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



C2orf29 (K-15): sc-139235. Western blot analysis of C2orf29 expression in non-transfected: sc-117752 (A) and human C2orf29 transfected: sc-116871 (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.

PROTOCOLS

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

MONOS
Satisfaction
Guaranteed

Try **CNOT11 (C-6): sc-377068** or **CNOT11 (H-7): sc-390318**, our highly recommended monoclonal alternatives to C2orf29 (K-15).