

C11orf61 (K-15): sc-240016

BACKGROUND

C11orf61 (chromosome 11 open reading frame 61), also known as FLJ23342, is a 559 amino acid protein that exists as three alternatively spliced isoforms and is encoded by a gene located on human chromosome 11. With approximately 135 million base pairs and 1,400 genes, chromosome 11 makes up around 4% of human genomic DNA and is considered a gene and disease association dense chromosome. The chromosome 11 encoded Atm gene is important for regulation of cell cycle arrest and apoptosis following double strand DNA breaks. Atm mutation leads to the disorder known as ataxia-telangiectasia. The blood disorders Sickle cell anemia and β thalassemia are caused by HBB gene mutations. Wilms' tumors, WAGR syndrome and Denys-Drash syndrome are associated with mutations of the WT1 gene. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are also associated with defects in chromosome 11.

REFERENCES

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- Taylor, T.D., et al. 2006. Human chromosome 11 DNA sequence and analysis including novel gene identification. *Nature* 440: 497-500.
- Zehelein, J., et al. 2006. Skipping of Exon 1 in the KCNQ1 gene causes Jervell and Lange-Nielsen syndrome. *J. Biol. Chem.* 281: 35397-35403.
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CHROMOSOMAL LOCATION

Genetic locus: C11orf61 (human) mapping to 11q24.2; BC024479 (mouse) mapping to 9 A4.

SOURCE

C11orf61 (K-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of C11orf61 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-240016 P, (100 μ g 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

C11orf61 (K-15) is recommended for detection of C11orf61 of human origin and BC024479 of mouse origin 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); non cross-reactive with other C11orf family members.

C11orf61 (K-15) is also recommended for detection of C11orf61 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for C11orf61 siRNA (h): sc-96683, BC024479 siRNA (m): sc-141535, C11orf61 shRNA Plasmid (h): sc-96683-SH, BC024479 shRNA Plasmid (m): sc-141535-SH, C11orf61 shRNA (h) Lentiviral Particles: sc-96683-V and BC024479 shRNA (m) Lentiviral Particles: sc-141535-V.

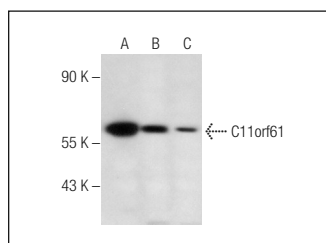
Molecular Weight of C11orf61: 61 kDa.

Positive Controls: HL-60 whole cell lysate: sc-2209, PC-3 cell lysate: sc-2220 or MCF7 whole cell lysate: sc-2206.

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



C11orf61 (K-15): sc-240016. Western blot analysis of C11orf61 expression in HL-60 (A), PC-3 (B) and MCF7 (C) 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.