

CWC15 (N-14): sc-138768

BACKGROUND

CWC15 (CWC15 spliceosome-associated protein), also known as ORF5, Cwf15, C11orf5 or HSPC14, is a 229 amino acid protein involved in pre-mRNA splicing. The gene encoding CWC15 maps to human chromosome 11q21. 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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CHROMOSOMAL LOCATION

Genetic locus: CWC15 (human) mapping to 11q21; Cwc15 (mouse) mapping to 9 A1.

SOURCE

CWC15 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of CWC15 of human origin.

STORAGE

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

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-138768 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CWC15 (N-14) is recommended for detection of CWC15 of mouse, rat and human 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).

CWC15 (N-14) is also recommended for detection of CWC15 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for CWC15 siRNA (h): sc-97055, CWC15 siRNA (m): sc-142639, CWC15 shRNA Plasmid (h): sc-97055-SH, CWC15 shRNA Plasmid (m): sc-142639-SH, CWC15 shRNA (h) Lentiviral Particles: sc-97055-V and CWC15 shRNA (m) Lentiviral Particles: sc-142639-V.

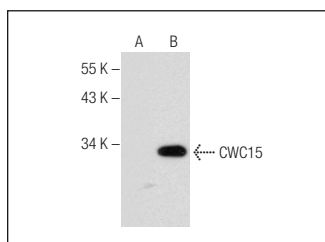
Molecular Weight of CWC15: 27 kDa.

Positive Controls: CWC15 (m): 293T Lysate: sc-119530.

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



CWC15 (N-14): sc-138768. Western blot analysis of CWC15 expression in non-transfected: sc-117752 (A) and mouse CWC15 transfected: sc-119530 (B) 293T whole cell lysates.

RESEARCH USE

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