

# CWC15 (H-1): sc-390450

## 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  $\beta$  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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3. Taylor, T.D., et al. 2006. Human chromosome 11 DNA sequence and analysis including novel gene identification. *Nature* 440: 497-500.
4. 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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8. O'Connor, M.J., et al. 2007. Targeted cancer therapies based on the inhibition of DNA strand break repair. *Oncogene* 26: 7816-7824.
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## CHROMOSOMAL LOCATION

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

## SOURCE

CWC15 (H-1) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 47-60 near the N-terminus of CWC15 of human origin.

## RESEARCH USE

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

## PRODUCT

Each vial contains 200  $\mu$ g IgA in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-390450 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

## APPLICATIONS

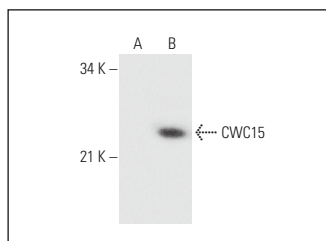
CWC15 (H-1) is recommended for detection of CWC15 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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.

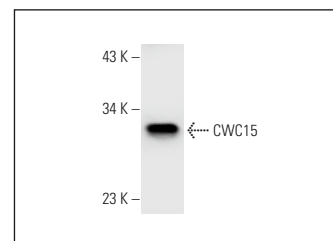
Molecular Weight of CWC15: 27 kDa.

Positive Controls: CWC15 (m): 293T Lysate: sc-119530 or human prostate extract: sc-363774.

## DATA



CWC15 (H-1): sc-390450. Western blot analysis of CWC15 expression in non-transfected: sc-117752 (A) and mouse CWC15 transfected: sc-119530 (B) 293T whole cell lysates.



CWC15 (H-1): sc-390450. Western blot analysis of CWC15 expression in human prostate tissue extract.

## 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](http://www.scbt.com) for detailed protocols and support products.