# C5orf24 (L-14): sc-138867



The Power to Question

### **BACKGROUND**

With 181 million base pairs encoding around 1,000 genes, chromosome 5 is about 6% of human genomic DNA. It is associated with Cockayne syndrome through the ERCC8 gene and familial adenomatous polyposis through the adenomatous polyposis coli (APC) tumor suppressor gene. Treacher Collins syndrome is also chromosome 5 associated and is caused by insertions or deletions within the TCOF1 gene. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome. Deletion of 5q or chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome. The C5orf24 gene product has been provisionally designated C5orf24 pending further characterization.

## **REFERENCES**

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- 3. Kadmon, M., et al. 2001. Duodenal adenomatosis in familial adenomatous polyposis coli. A review of the literature and results from the Heidelberg Polyposis Register. Int. J. Colorectal Dis. 16: 63-75.
- 4. South, S.T., et al. 2006. A new genomic mechanism leading to cri-du-chat syndrome. Am. J. Med. Genet. A 140: 2714-2720.
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- Du, H.Y., et al. 2007. Telomerase reverse transcriptase haploinsufficiency and telomere length in individuals with 5p- syndrome. Aging Cell 6: 689-697.
- Herry, A., et al. 2007. Redefining monosomy 5 by molecular cytogenetics in 23 patients with MDS/AML. Eur. J. Haematol. 78: 457-467.

# CHROMOSOMAL LOCATION

Genetic locus: C5orf24 (human) mapping to 5q31.1; B230219D22Rik (mouse) mapping to 13 B1.

## **SOURCE**

C5orf24 (L-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of C5orf24 of human origin.

# **PRODUCT**

Each vial contains 100  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-138867 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## **APPLICATIONS**

C5orf24 (L-14) is recommended for detection of C5orf24 isoforms 1 and 2 of human origin, and B230219D22Rik of mouse origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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); non cross-reactive with other C5orf family members.

C5orf24 (L-14) is also recommended for detection of C5orf24 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for C5orf24 siRNA (h): sc-91880, B230219D22Rik siRNA (m): sc-141437, C5orf24 shRNA Plasmid (h): sc-91880-SH, B230219D22Rik shRNA Plasmid (m): sc-141437-SH, C5orf24 shRNA (h) Lentiviral Particles: sc-91880-V and B230219D22Rik shRNA (m) Lentiviral Particles: sc-141437-V.

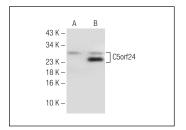
Molecular Weight of C5orf24 isoforms: 20/17 kDa.

Positive Controls: C5orf24 (h): 293T Lysate: sc-116542 or c4 whole cell lysate.

### **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**



C5orf24 (L-14): sc-138867. Western blot analysis of C5orf24 expression in non-transfected: sc-117752 (A) and human C5orf24 transfected: sc-116542 (B) 293T whole cell lysates.

## **STORAGE**

Store at  $4^{\circ}$  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.