

# KIAA1191 (C-17): sc-243180

## BACKGROUND

KIAA1191 is a 305 amino acid protein that belongs to the UPF0498 family and exists as 3 alternatively spliced isoforms. The gene that encodes KIAA1191 consists of approximately 15,908 bases and maps to human chromosome 5q35.2. With 181 million base pairs, Chromosome 5 comprises nearly 6% of the human genome. Chromosome 5 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, while deletion of the q arm or of chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

## REFERENCES

1. Edwards, S.J., et al. 1997. The mutational spectrum in Treacher Collins syndrome reveals a predominance of mutations that create a premature-termination codon. *Am. J. Hum. Genet.* 60: 515-524.
2. McDaniel, L.D., et al. 1997. Confirmation of homozygosity for a single nucleotide substitution mutation in a Cockayne syndrome patient using monoallelic mutation analysis in somatic cell hybrids. *Hum. Mutat.* 10: 317-321.
3. Crawford, M.J., et al. 1997. Human and murine PTX1/Ptx1 gene maps to the region for Treacher Collins syndrome. *Mamm. Genome* 8: 841-845.
4. Finch, R., et al. 2005. Familial adenomatous polyposis and mental retardation caused by a *de novo* chromosomal deletion at 5q15-q22: report of a case. *Dis. Colon Rectum* 48: 2148-2152.
5. Anindya, R., et al. 2007. Damage-induced ubiquitylation of human RNA polymerase II by the ubiquitin ligase Nedd4, but not Cockayne syndrome proteins or BRCA1. *Mol. Cell* 28: 386-397.
6. Vera-Carbonell, A., et al. 2009. Characterization of a *de novo* complex chromosomal rearrangement in a patient with cri-du-chat and trisomy 5p syndromes. *Am. J. Med. Genet. A* 149A: 2513-2521.

## CHROMOSOMAL LOCATION

Genetic locus: KIAA1191 (human) mapping to 5q35.2; 4833439L19Rik (mouse) mapping to 13 B1.

## SOURCE

KIAA1191 (C-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of KIAA1191 of human origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-243180 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

KIAA1191 (C-17) is recommended for detection of KIAA1191 of human origin, 4833439L19Rik of mouse origin and the corresponding rat homolog by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

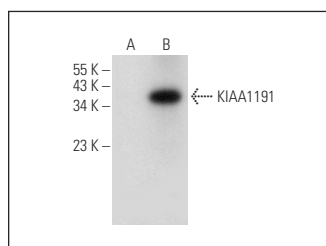
KIAA1191 (C-17) is also recommended for detection of KIAA1191 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for KIAA1191 siRNA (h): sc-91721, 4833439L19Rik siRNA (m): sc-108979, KIAA1191 shRNA Plasmid (h): sc-91721-SH, 4833439L19Rik shRNA Plasmid (m): sc-108979-SH, KIAA1191 shRNA (h) Lentiviral Particles: sc-91721-V and 4833439L19Rik shRNA (m) Lentiviral Particles: sc-108979-V.

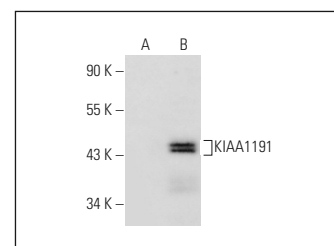
Molecular Weight of KIAA1191 isoforms: 33/31/11 kDa.

Positive Controls: KIAA1191 (h): 293T Lysate: sc-177430.

## DATA



KIAA1191 (C-17): sc-243180. Western blot analysis of KIAA1191 expression in non-transfected: sc-117752 (A) and human KIAA1191 transfected: sc-113572 (B) 293T whole cell lysates.



KIAA1191 (C-17): sc-243180. Western blot analysis of KIAA1191 expression in non-transfected: sc-117752 (A) and human KIAA1191 transfected: sc-177430 (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.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **KIAA1191 (G-4): sc-398723**, our highly recommended monoclonal alternative to KIAA1191 (C-17).