

C12orf29 (h): 293T Lysate: sc-111519

BACKGROUND

Encoding over 1,100 genes within 132 million bases, chromosome 12 makes up about 4.5% of the human genome. A number of skeletal deformities are linked to chromosome 12 including hypochondrogenesis, achondrogenesis and Kniest dysplasia. Noonan syndrome, which includes heart and facial developmental defects among the primary symptoms, is caused by a mutant form of PTPN11 gene product, SH-PTP2. Chromosome 12 is also home to a homeobox gene cluster which encodes crucial transcription factors for morphogenesis, and the natural killer complex gene cluster encoding C-type lectin proteins which mediate the NK cell response to MHC I interaction. Trisomy 12p leads to facial development defects, seizure disorders and a host of other symptoms varying in severity depending on the extent of mosaicism and is most severe in cases of complete trisomy. The C12orf29 gene product has been provisionally designated C12orf29 pending further characterization.

REFERENCES

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STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

CHROMOSOMAL LOCATION

Genetic locus: C12orf29 (human) mapping to 12q21.32.

PRODUCT

C12orf29 (h): 293T Lysate represents a lysate of human C12orf29 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

C12orf29 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive C12orf29 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

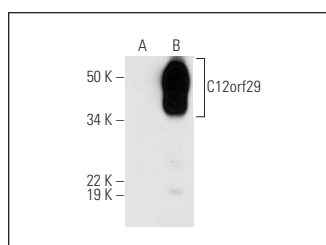
C12orf29 (B-1): sc-390846 is recommended as a positive control antibody for Western Blot analysis of enhanced human C12orf29 expression in C12orf29 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

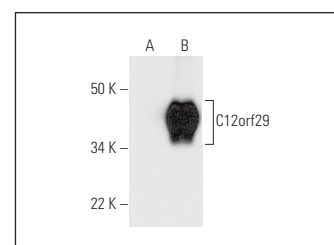
To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



C12orf29 (B-1): sc-390846. Western blot analysis of C12orf29 expression in non-transfected: sc-117752 (A) and human C12orf29 transfected: sc-111519 (B) 293T whole cell lysates.



C12orf29 (A-7): sc-390845. Western blot analysis of C12orf29 expression in non-transfected: sc-117752 (A) and human C12orf29 transfected: sc-111519 (B) 293T whole cell lysates.

RESEARCH USE

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