SANTA CRUZ BIOTECHNOLOGY, INC.

LOH12CR1 (C-15): sc-168466

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 class 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 LOH12CR1 gene product has been provisionally designated LOH12CR1 pending further characterization.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: LOH12CR1 (human) mapping to 12p13.2; Loh12cr1 (mouse) mapping to 6 G1.

SOURCE

LOH12CR1 (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of LOH12CR1 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-168466 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LOH12CR1 (C-15) is recommended for detection of LOH12CR1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

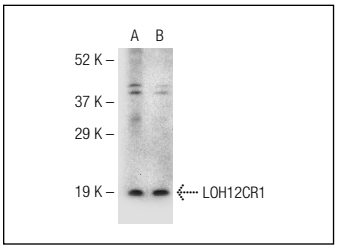
LOH12CR1 (C-15) is also recommended for detection of LOH12CR1 in additional species, including canine.

Suitable for use as control antibody for LOH12CR1 siRNA (h): sc-95929, LOH12CR1 siRNA (m): sc-149011, LOH12CR1 shRNA Plasmid (h): sc-95929-SH, LOH12CR1 shRNA Plasmid (m): sc-149011-SH, LOH12CR1 shRNA (h) Lentiviral Particles: sc-95929-V and LOH12CR1 shRNA (m) Lentiviral Particles: sc-149011-V.

Molecular Weight of LOH12CR1 isoforms: 22/17 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203 or U-937 cell lysate: sc-2239.

DATA



LOH12CR1 (C-15): sc-168466. Western blot analysis of LOH12CR1 expression in K-562 (**A**) and U-937 (**B**) 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 or our catalog for detailed protocols and support products.