C7orf64 (H-140): sc-135131



The Power to Question

BACKGROUND

Chromosome 7 is about 158 milllion bases long, encodes over 1,000 genes and makes up about 5% of the human genome. Chromosome 7 has been linked to osteogenesis imperfecta, Pendred syndrome, lissencephaly, citrullinemia and Shwachman-Diamond syndrome. The deletion of a portion of the q arm of chromosome 7 is associated with Williams-Beuren syndrome, a condition characterized by mild mental retardation, an unusual comfort and friendliness with strangers and an elfin appearance. Deletions of portions of the q arm of chromosome 7 are also seen in a number of myeloid disorders including cases of acute myelogenous leukemia and myelodysplasia. The C7orf64 gene product has been provisionally designated C7orf64 pending further characterization.

REFERENCES

- 1. Tsipouras, P., et al. 1983. Restriction fragment length polymorphism associated with the $pro\alpha 2(I)$ gene of human type I procollagen. Application to a family with an autosomal dominant form of osteogenesis imperfecta. J. Clin. Invest. 72: 1262-1267.
- Liang, H., et al. 1998. Molecular anatomy of chromosome 7q deletions in myeloid neoplasms: evidence for multiple critical loci. Proc. Natl. Acad. Sci. USA 95: 3781-3785.
- 3. Hillier, L.W., et al. 2003. The DNA sequence of human chromosome 7. Nature 424: 157-164.
- Eckert, M.A., et al. 2006. The neurobiology of Williams syndrome: cascading influences of visual system impairment? Cell. Mol. Life Sci. 63: 1867-1875.
- Osborne, L.R., et al. 2006. Williams-Beuren syndrome diagnosis using fluorescence in situ hybridization. Methods Mol. Med. 126: 113-128.
- 6. Shimamura, A. 2006. Shwachman-Diamond syndrome. Semin. Hematol. 43: 178-188.

CHROMOSOMAL LOCATION

Genetic locus: RBM48 (human) mapping to 7q21.2; C030048B08Rik (mouse) mapping to 5 A1.

SOURCE

C7orf64 (H-140) is a rabbit polyclonal antibody raised against amino acids 1-140 mapping at the N-terminus of C7orf64 of human origin.

PRODUCT

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

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 or our catalog for detailed protocols and support products.

APPLICATIONS

C7orf64 (H-140) is recommended for detection of C7orf64 of human origin and C030048B08Rik of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ 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).

C7orf64 (H-140) is also recommended for detection of C7orf64 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for C7orf64 siRNA (h): sc-89535, C030048B08Rik siRNA (m): sc-141813, C7orf64 shRNA Plasmid (h): sc-89535-SH, C030048B08Rik shRNA Plasmid (m): sc-141813-SH, C7orf64 shRNA (h) Lentiviral Particles: sc-89535-V and C030048B08Rik shRNA (m) Lentiviral Particles: sc-141813-V.

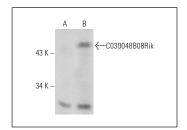
Molecular Weight of C7orf64: 42 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206 or C030048B08Rik (m): 293T Lysate: sc-118898.

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



C7orf64 (H-140): sc-135131. Western blot analysis of C030048B08Rik expression in non-transfected: sc-117752 (A) and mouse C030048B08Rik transfected: sc-118899 (B) 293T whole cell lysates.

RESEARCH USE

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

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