RSHL1 (C-13): sc-139046



The Power to Question

BACKGROUND

RSHL1 (radial spoke head-like protein 1), also known as RSPH6A (radial spoke head protein 6 homolog A), is a 717 amino acid protein that belongs to the flagellar radial spoke RSP4/6 family. The gene encoding RSHL1 maps to human chromosome 19q13.32. Consisting of around 63 million bases with over 1,400 genes, chromosome 19 makes up over 2% of human genomic DNA. Chromosome 19 includes a diversity of interesting genes and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin superfamily members including the killer cell and leukocyte lg-like receptors, a number of ICAMs, the CEACAM and PSG families, and Fc α receptors. Key genes for eye color and hair color also map to chromosome 19. Peutz-Jeghers syndrome, spinocerebellar ataxia type 6, the stroke disorder CADASIL, hypercholesterolemia and Insulin-dependent diabetes have been linked to chromosome 19. Trans-locations with chromosome 19 and chromosome 14 can be seen in some lymphoproliferative disorders and typically involve the proto-oncogene BCL3.

REFERENCES

- Olsen, A., et al. 1994. Gene organization of the pregnancy-specific glycoprotein region on human chromosome 19: assembly and analysis of a 700kb cosmid contig spanning the region. Genomics 23: 659-668.
- 2. Teglund, S., et al. 1994. The pregnancy-specific glycoprotein (PSG) gene cluster on human chromosome 19: fine structure of the 11 PSG genes and identification of 6 new genes forming a third subgroup within the carcinoembryonic antigen (CEA) family. Genomics 23: 669-684.
- Wang, L., et al. 2000. C-CAM1, a candidate tumor suppressor gene, is abnormally expressed in primary lung cancers. Clin. Cancer Res. 6: 2988-2993.
- Eriksson, M., et al. 2001. A mammalian radial spokehead-like gene, RSHL1, at the myotonic dystrophy-1 locus. Biochem. Biophys. Res. Commun. 281: 835-841.
- 5. Trowsdale, J., et al. 2001. The genomic context of natural killer receptor extended gene families. Immunol. Rev. 181: 20-38.
- Le Meur, N., et al. 2004. Complete germline deletion of the STK11 gene in a family with Peutz-Jeghers syndrome. Eur. J. Hum. Genet. 12: 415-418.
- 7. Leeb, T., et al. 2004. Comparative human-mouse-rat sequence analysis of the ICAM gene cluster on HSA 19p13.2 and a 185-kb porcine region from SSC 2q. Gene 343: 239-244.
- Barrow, A.D., et al. 2008. The extended human leukocyte receptor complex: diverse ways of modulating immune responses. Immunol. Rev. 224: 98-123.

CHROMOSOMAL LOCATION

Genetic locus: RSPH6A (human) mapping to 19q13.32; Rsph6a (mouse) mapping to 7 A3.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

SOURCE

RSHL1 (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of RSHL1 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-139046 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

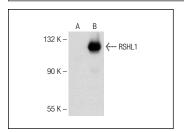
RSHL1 (C-13) is recommended for detection of RSHL1 of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with RSHL3.

Suitable for use as control antibody for RSHL1 siRNA (h): sc-97641, RSHL1 siRNA (m): sc-153139, RSHL1 shRNA Plasmid (h): sc-97641-SH, RSHL1 shRNA Plasmid (m): sc-153139-SH, RSHL1 shRNA (h) Lentiviral Particles: sc-97641-V and RSHL1 shRNA (m) Lentiviral Particles: sc-153139-V.

Molecular Weight of RSHL1: 81 kDa.

Positive Controls: RSHL1 (h): 293T Lysate: sc-129687.

DATA



RSHL1 (C-13): sc-139046. Western blot analysis of RSHL1 expression in non-transfected: sc-117752 (A) and human RSHL1 transfected: sc-129687 (B) 293T whole cell lysates.

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.

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3800 fax 831.457.3801 Europe +00800 4573 8000 49 6221 4503 0 www.scbt.com