

RERGL (F-12): sc-138581

BACKGROUND

RERGL, also known as ras-related and estrogen-regulated growth inhibitor-like protein, is a 205 amino acid protein that belongs to the small GTPase superfamily as well as the Ras family. RERGL binds GDP/GTP and may possess in-trinsic GTPase activity. The RERGL gene is conserved in chimpanzee, dog, mouse, rat, chicken, zebrafish and mosquito, and maps to human chromosome 12p12.3. 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. 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.

REFERENCES

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- Trowsdale, J., et al. 2001. The genomic context of natural killer receptor extended gene families. *Immunol. Rev.* 181: 20-38.
- Zumkeller, W., et al. 2004. Genotype/phenotype analysis in a patient with pure and complete trisomy 12p. *Am. J. Med. Genet. A.* 129A: 261-264.
- Kelley, J., et al. 2005. Comparative genomics of natural killer cell receptor gene clusters. *PLoS Genet.* 1: 129-139.
- Segel, R., et al. 2006. The natural history of trisomy 12p. *Am. J. Med. Genet. A* 140: 695-703.
- van der Burgt, I. 2007. Noonan syndrome. *Orphanet J. Rare Dis.* 2: 4.
- SWISS-PROT/TrEMBL (Q9H628). World Wide Web URL: <http://www.uniprot.org/uniprot/Q9H628>

CHROMOSOMAL LOCATION

Genetic locus: RERGL (human) mapping to 12p12.3; Rergl (mouse) mapping to 6 G2.

SOURCE

RERGL (F-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of RERGL of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-138581 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

RERGL (F-12) is recommended for detection of RERGL of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for RERGL siRNA (h): sc-95944, RERGL siRNA (m): sc-152810, RERGL shRNA Plasmid (h): sc-95944-SH, RERGL shRNA Plasmid (m): sc-152810-SH, RERGL shRNA (h) Lentiviral Particles: sc-95944-V and RERGL shRNA (m) Lentiviral Particles: sc-152810-V.

Molecular Weight of RERGL: 24 kDa.

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) 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.

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.