LENG1 (P-16): sc-241519



The Power to Question

BACKGROUND

LENG1 (leukocyte receptor cluster member 1) is a 264 amino acid protein that belongs to the leukocyte receptor cluster (LRC), which maps to human chromosome 19q13.42. 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 Insulindependent diabetes have been linked to chromosome 19.

REFERENCES

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- 3. Trettel, F., et al. 2000. A fine physical map of the CACNA1A gene region on 19p13.1-p13.2 chromosome. Gene 241: 45-50.
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CHROMOSOMAL LOCATION

Genetic locus: LENG1 (human) mapping to 19q13.42; Leng1 (mouse) mapping to 7 A1.

SOURCE

LENG1 (P-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of LENG1 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.

Blocking peptide available for competition studies, sc-241519 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LENG1 (P-16) is recommended for detection of LENG1 of mouse, rat 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 LENG4, LENG8 or LENG9.

LENG1 (P-16) is also recommended for detection of LENG1 in additional species, including bovine.

Suitable for use as control antibody for LENG1 siRNA (h): sc-97599, LENG1 siRNA (m): sc-146702, LENG1 shRNA Plasmid (h): sc-97599-SH, LENG1 shRNA Plasmid (m): sc-146702-SH, LENG1 shRNA (h) Lentiviral Particles: sc-97599-V and LENG1 shRNA (m) Lentiviral Particles: sc-146702-V.

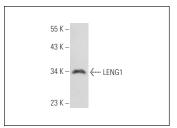
Molecular Weight of LENG1: 31 kDa.

Positive Controls: human skin extract: sc-363777.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



LENG1 (P-16): sc-241519. Western blot analysis of LENG1 expression in human skin tissue extract.

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.

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