

## IdnK (P-16): sc-242264

### BACKGROUND

C9orf103 (chromosome 9 open reading frame 103), also known as gluconate kinase, is a 187 amino acid protein that belongs to the gluconokinase gntK/gntV family and catalyzes the conversion of ATP and D-gluconate to ADP and 6-phospho-D-gluconate. Existing as three alternatively spliced isoforms, the gene encoding C9orf103 maps to human chromosome 9q21.32. Chromosome 9 consists of about 145 million bases, represents 4% of the human genome and encodes nearly 900 genes. Thought to play a role in gender determination, deletion of the distal portion of 9p can lead to development of male to female sex reversal, the phenotype of a female with a male X,Y genotype. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, is associated with the chromosome 9 gene encoding endoglin protein, ENG. Familial dysautonomia is also associated with chromosome 9 through through the gene IKBKAP. Notably, chromosome 9 encompasses the largest interferon family gene cluster.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: IDNK (human) mapping to 9q21.32; Idnk (mouse) mapping to 13 B1.

### SOURCE

IdnK (P-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of IdnK 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-242264 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

IdnK (P-16) is recommended for detection of IdnK 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).

IdnK (P-16) is also recommended for detection of IdnK in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for IdnK siRNA (h): sc-92970, IdnK siRNA (m): sc-140348, IdnK shRNA Plasmid (h): sc-92970-SH, IdnK shRNA Plasmid (m): sc-140348-SH, IdnK shRNA (h) Lentiviral Particles: sc-92970-V and IdnK shRNA (m) Lentiviral Particles: sc-140348-V.

Molecular Weight of IdnK: 21 kDa.

### 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) 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.

### 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](http://www.scbt.com) or our catalog for detailed protocols and support products.