

CBE1 (P-14): sc-162644

BACKGROUND

CBE1 (ciliated bronchial epithelium 1), also known as C9orf24 (chromosome 9 open reading frame 24) or testis development protein NYD-SP22, is a 262 amino acid protein that exists as three alternatively spliced isoforms. CBE1 is expressed in ciliated cells and is found at high levels in adult testis. Suggested to play a role in ciliogenesis and spermatogenesis, CBE1 is encoded by a gene that maps to human chromosome 9p13.3. Chromosome 9 consists of about 145 million bases, represents 4% of the human genome and encodes nearly 900 genes. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, and Familial dysautonomia, are both associated with chromosome 9. Notably, chromosome 9 encompasses the largest interferon family gene cluster.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: C9orf24 (human) mapping to 9p13.3; 1110017D15Rik (mouse) mapping to 4 A5.

SOURCE

CBE1 (P-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CBE1 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-162644 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CBE1 (P-14) is recommended for detection of CBE1 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).

CBE1 (P-14) is also recommended for detection of CBE1 in additional species, including canine and porcine.

Suitable for use as control antibody for CBE1 siRNA (h): sc-92698, CBE1 siRNA (m): sc-142034, CBE1 shRNA Plasmid (h): sc-92698-SH, CBE1 shRNA Plasmid (m): sc-142034-SH, CBE1 shRNA (h) Lentiviral Particles: sc-92698-V and CBE1 shRNA (m) Lentiviral Particles: sc-142034-V.

Molecular Weight of CBE1: 30 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 or our catalog for detailed protocols and support products.