BACKGROUND

TAP26, also known as TTF-1-associated protein 26 (thyroid transcription factor 1-associated protein 26), CCDC59 (coiled-coil domain-containing protein 59) or BR22, is a 241 amino acid nuclear protein that belongs to the TAP26 family. As a component of the transcription complexes of the pulmonary surfactant-associated protein-B (SP-B) and pulmonary surfactant-associated protein-C (SP-C), TAP26 interacts with homeobox protein TTF-1 to enhance SP-B and SP-C promoter activity. Although otherwise ubiquitously expressed, in lung TAP26 is restricted to the alveolar epithelial cells. The gene that encodes TAP26 contains approximately 6,502 bases and maps to human chromosome 12q21.31. Encoding over 1,100 genes, chromosome 12 comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and trisomy 12p, which causes facial developmental defects and seizure disorders.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: CCDC59 (human) mapping to 12q21.31.

SOURCE

TAP26 (T-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TAP26 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-248767 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TAP26 (T-16) is recommended for detection of TAP26 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1,000), 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 other TAP family members. TAP26 (T-16) is also recommended for detection of TAP26 in additional species, including equine. Suitable for use as control antibody for TAP26 siRNA (h): sc-96205, TAP26 shRNA Plasmid (h): sc-96205-SH and TAP26 shRNA (h) Lentiviral Particles: sc-96205-V. Molecular Weight of TAP26: 26 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.