

COTE1 (P-12): sc-241363

BACKGROUND

COTE1, also known as FAM189B (family with sequence similarity 189, member B), is a 668 amino acid multi-pass membrane protein that is widely expressed and belongs to the FAM189 family. Existing as two alternatively spliced isoforms, COTE1 is encoded by a gene that maps to human chromosome 1q22. As the largest human chromosome, chromosome 1 spans about 260 million base pairs and makes up approximately 8% of the human genome. Hutchinson-Gilford progeria, a rare aging disorder, is associated with the LMNA gene which is located on chromosome 1. Familial adenomatous polyposis, Stickler syndrome, Parkinsons, Gaucher disease and Usher syndrome are also associated with chromosome 1. Aberrations in chromosome 1 are found in a variety of cancers including head and neck cancer, malignant melanoma and multiple myeloma.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FAM189B (human) mapping to 1q22; Fam189b (mouse) mapping to 3 F1.

SOURCE

COTE1 (P-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of COTE1 of human origin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

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-241363 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

COTE1 (P-12) is recommended for detection of COTE1 of human, FAM189B of mouse origin and RGD1306107 of rat 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).

Suitable for use as control antibody for COTE1 siRNA (h): sc-78864, FAM189B siRNA (m): sc-108155, COTE1 shRNA Plasmid (h): sc-78864-SH, FAM189B shRNA Plasmid (m): sc-108155-SH, COTE1 shRNA (h) Lentiviral Particles: sc-78864-V and FAM189B shRNA (m) Lentiviral Particles: sc-108155-V.

Molecular Weight of COTE1: 71 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.