POTE21 (N-15): sc-83510



The Power to Question

BACKGROUND

POTE21 (prostate, ovary, testis-expressed protein on chromosome 21), also known as ANKRD21 (ankyrin repeat domain-containing protein 21), POTED, A26B3 or POTE, is a 584 amino acid peripheral membrane protein that contains 6 ankyrin repeats and belongs to the POTE family. Expressed in testis, ovary and placental tissue, as well as in prostate cancer cell lines, ANKRD21 is thought to play a role in reproductive processes, such as spermatogenesis, and may be involved in tumor progression. The gene encoding ANKRD21 maps to chromosome 21, which houses approximately 300 genes and comprises nearly 1.5% of the human genome. Chromosome 21-associated disorders include Alzheimer's disease, amyotrophic lateral sclerosis and, most notably, Down syndrome (also known as trisomy 21).

REFERENCES

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SOURCE

POTE21 (N-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of POTE21 of human origin.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PRODUCT

Each vial contains 100 μg IgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-83510 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

POTE21 (N-15) is recommended for detection of POTE21, POTE2, POTE14, POTE15, POTE18, A26C1B, ACTBL1, and P704P of 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); non cross-reactive with other POTE21 family members.

Molecular Weight of POTE21: 66 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.

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