

BUD13 (Y-17): sc-241946

BACKGROUND

BUD13 is a 619 amino acid protein that belongs to the CWC26 family and exists as 2 alternatively spliced isoforms that are encoded by a gene located on human chromosome 11q23.3. Chromosome 11 comprises approximately 4% of human genomic DNA and is considered a gene and disease association dense chromosome. The chromosome 11 encoded Atm gene is important for regulation of cell cycle arrest and apoptosis following double strand DNA breaks. Atm mutation leads to the disorder known as ataxia-telangiectasia. The blood disorders Sickle cell anemia and thalassemia are caused by HBB gene mutations, while Wilms' tumors, WAGR syndrome and Denys-Drash syndrome are associated with mutations of the WT1 gene. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are also associated with defects in chromosome 11-encoded genes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: BUD13 (human) mapping to 11q23.3; Bud13 (mouse) mapping to 9 A5.2.

SOURCE

BUD13 (Y-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of BUD13 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 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-241946 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

BUD13 (Y-17) is recommended for detection of BUD13 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); non cross-reactive with BUD31.

BUD13 (Y-17) is also recommended for detection of BUD13 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for BUD13 siRNA (h): sc-96899, BUD13 siRNA (m): sc-141790, BUD13 shRNA Plasmid (h): sc-96899-SH, BUD13 shRNA Plasmid (m): sc-141790-SH, BUD13 shRNA (h) Lentiviral Particles: sc-96899-V and BUD13 shRNA (m) Lentiviral Particles: sc-141790-V.

Molecular Weight of BUD13: 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.

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.