SANTA CRUZ BIOTECHNOLOGY, INC.

Purβ (211H2H): sc-517644

BACKGROUND

Purβ (purine-rich element-binding protein B), also known as transcriptional activator protein Purβ, is a 312 amino acid protein that belongs to the PUR DNA-binding protein family. The Purβ gene product is a sequence-specific, single-stranded DNA-binding protein. It binds preferentially to the single strand of the purine-rich element termed PUR, which is present at origins of replication and in gene flanking regions in a variety of eukaryotes from yeasts through humans. Thus, the Purβ protein is implicated in the control of both DNA replication and transcription. Deletion of the Purβ gene has been associated with myelodysplastic syndrome and acute myelogenous leukemia (AML), which is a malignant disease where in hematopoietic precursors are arrested in an early stage of development. Localizing to nucleus, the Purβ protein is expressed in myocardium of heart failure patients. The Purβ gene is conserved in mouse, rat, zebrafish, fruit fly, mosquito, *C. elegans, A. thaliana* and rice. and maps to human chromosome 7p13.

REFERENCES

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PROTOCOLS

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

CHROMOSOMAL LOCATION

Genetic locus: PURB (human) mapping to 7p13; Purb (mouse) mapping to 11 A1.

SOURCE

Purβ (211H2H) is a mouse monoclonal antibody raised against recombinant Purβ of human origin.

PRODUCT

Each vial contains 100 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Purβ (211H2H) is recommended for detection of Purβ of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

Suitable for use as control antibody for Purβ siRNA (h): sc-89882, Purβ siRNA (m): sc-155954, Purβ shRNA Plasmid (h): sc-89882-SH, Purβ shRNA Plasmid (m): sc-155954-SH, Purβ shRNA (h) Lentiviral Particles: sc-89882-V and Purβ shRNA (m) Lentiviral Particles: sc-155954-V.

Molecular Weight of Purβ: 33 kDa.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

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.