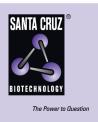
## SANTA CRUZ BIOTECHNOLOGY, INC.

# Purβ (211H2H): sc-517644



## BACKGROUND

Pur $\beta$  (purine-rich element-binding protein B), also known as transcriptional activator protein Pur $\beta$ , is a 312 amino acid protein that belongs to the PUR DNA-binding protein family. The Pur $\beta$  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 Pur $\beta$  protein is implicated in the control of both DNA replication and transcription. Deletion of the Pur $\beta$  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 Pur $\beta$  protein is expressed in myocardium of heart failure patients. The Pur $\beta$  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

 $\text{Pur}\beta$  (211H2H) is a mouse monoclonal antibody raised against recombinant  $\text{Pur}\beta$  of human origin.

## PRODUCT

Each vial contains 100  $\mu g$  lgG\_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

#### **APPLICATIONS**

Pur $\beta$  (211H2H) is recommended for detection of Pur $\beta$  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 Pur $\beta$  siRNA (h): sc-89882, Pur $\beta$  siRNA (m): sc-155954, Pur $\beta$  shRNA Plasmid (h): sc-89882-SH, Pur $\beta$  shRNA Plasmid (m): sc-155954-SH, Pur $\beta$  shRNA (h) Lentiviral Particles: sc-89882-V and Pur $\beta$  shRNA (m) Lentiviral Particles: sc-155954-V.

Molecular Weight of Pur<sub>b</sub>: 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<sup>®</sup> Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

#### **STORAGE**

Store at 4° C, \*\*D0 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.