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Pur β (m): 293T Lysate: sc-179390

BACKGROUND

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

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

CHROMOSOMAL LOCATION

Genetic locus: Purb (mouse) mapping to 11 A1.

PRODUCT

Pur β (m): 293T Lysate represents a lysate of mouse Pur β transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

Pur β (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Pur β antibodies. Recommended use: 10-20 μ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RESEARCH USE

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

PROTOCOLS

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