PYST2 (m): 293T Lysate: sc-122861



The Power to Question

BACKGROUND

Mitogen-activated protein (MAP) kinases are a large class of proteins involved in signal transduction pathways that are activated by a range of stimuli and mediate a number of physiological and pathological changes in the cell. Dual specificity phosphatases (DSPs) are a subclass of the protein tyrosine phosphatase (PTP) gene superfamily, which are selective for dephosphorylating critical phosphothreonine and phosphotyrosine residues within MAP kinases. DSP gene expression is induced by a host of growth factors and/or cellular stresses, thereby negatively regulating MAP kinase superfamily members including MAPK/ERK, SAPK/JNK and p38. PYST2 inactivates MAPK/ERK, thereby regulating the MAP kinase signaling pathway. PYST2 is overexpressed in patients with acute myelogenous leukemia (AML).

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Dusp7 (mouse) mapping to 9 F1.

PRODUCT

PYST2 (m): 293T Lysate represents a lysate of mouse PYST2 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

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.

APPLICATIONS

PYST2 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive PYST2 antibodies. Recommended use: 10-20 µl per lane.

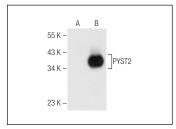
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

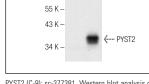
PYST2 (D-8): sc-377106 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse PYST2 expression in PYST2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

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

DATA





132 K -90 K -

PYST2 (D-8): sc-377106. Western blot analysis of PYST2 expression in non-transfected: sc-117752 (**A**) and mouse PYST2 transfected: sc-122861 (**B**) 293T whole cell Ivsates.

PYST2 (C-9): sc-377381. Western blot analysis of PYST2 expression in non-transfected: sc-117752 (A) and mouse PYST2 transfected: sc-122861 (B) 293T whole cell lysates.

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.