



SH2-B (m): 293T Lysate: sc-127534

BACKGROUND

SH2-B is a component of the signaling network involved in the regulation of cell shape and movement. SH2-B is related to the APS (adapter molecule containing PH and SH2 domains) family of adapter proteins, which characteristically contain a Pleckstrin homology (PH) domain, an SH2 domain and a tyrosine phosphorylation site. SH2-B is alternatively spliced to generate three distinct isoforms, SH2-B α , β and γ , that share an identical N-terminal sequence, including the PH domain, the SH2 domain and multiple proline-rich motifs. The isoform SH2-B β contributes to the regulation of the Actin cytoskeleton as it associates with various tyrosine kinases in response to growth factor stimulation. Following PDGF stimulation, SH2-B β can directly interact with the PDGF receptor (PDGFR) where it is phosphorylated on tyrosine residues and functions as a signaling protein for the PDGFR pathway. In addition, SH2-B β is also a substrate for JAK2 and, thereby, mediates the cytoskeletal reorganization that is induced by the signaling pathways of various growth factors.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Sh2b1 (mouse) mapping to 7 F3.

RESEARCH USE

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

PRODUCT

SH2-B (m): 293T Lysate represents a lysate of mouse SH2-B transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

SH2-B (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive SH2-B 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.

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.

PROTOCOLS

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