

SLP-76 (m): 293T Lysate: sc-126013

BACKGROUND

The translational product of the Vav proto-oncogene is exclusively expressed in cells of hematopoietic origin and is critical for lymphocyte development and activation. However, the biochemical basis of Vav function is unclear. Vav contains a single SH2 domain that is required for its association with the T cell receptor (TCR). Overexpression of Vav or SLP-76 in Jurkat cells leads to NFAT activation and IL-2 production. When co-expressed, Vav and SLP-76 synergize to induce a robust basal and TCR-mediated IL-2 response. Although SLP-76 does not contain a motif that would indicate it to be a member of the tyrosine, serine/threonine or lipid kinase families, it does contain several putative SH2/SH3-binding domains and has been shown to physically associate with the adapter protein GRB2 as well as PLC γ 1. The discovery of SLP-76 represents an important step in elucidating the mechanism of Vav transformation and TCR-mediated NFAT activation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Lcp2 (mouse) mapping to 11 A4.

PRODUCT

SLP-76 (m): 293T Lysate represents a lysate of mouse SLP-76 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.

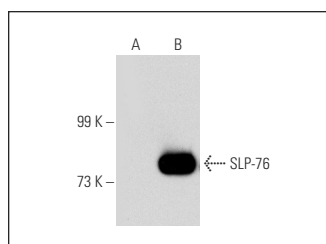
APPLICATIONS

SLP-76 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive SLP-76 antibodies. Recommended use: 10-20 μ l per lane.

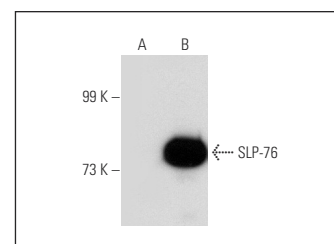
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

SLP-76 (SLP-76/03): sc-51698 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse SLP-76 expression in SLP-76 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



SLP-76 (SLP-76/03): sc-51698. Western blot analysis of SLP-76 expression in non-transfected: sc-117752 (A) and mouse SLP-76 transfected: sc-126013 (B) 293T whole cell lysates.



SLP-76 (F-7): sc-13151. Western blot analysis of SLP-76 expression in non-transfected: sc-117752 (A) and mouse SLP-76 transfected: sc-126013 (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.