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SANTA CRUZ BIOTECHNOLOGY, INC.

# SLP-76 (h3): 293T Lysate: sc-175892

## 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 coexpressed, 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 γ1. 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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2. Bustelo, X.R. and Barbacid, M. 1992. Tyrosine phosphorylation of the Vav proto-oncogene product in activated B cells. Science 256: 1196-1199.
3. Jackman, J.K., Motto, D.G., Sun, Q., Tanemoto, M., Turck, C.W., Peltz, G.A., Koretzky, G.A. and Findell, P.R. 1995. Molecular cloning of SLP-76, a 76 kDa tyrosine phosphoprotein associated with GRB2 in T cells. J. Biol. Chem. 270: 7029-7032.
4. Hanazono, Y., Odai, H., Sasaki, K., Iwamatsu, A., Yazaki, Y. and Hirai, H. 1996. Proto-oncogene products Vav and c-Cbl are involved in the signal transduction through GRB2/ASH in hematopoietic cells. Acta Haematol. 95: 236-242.
5. Luger, S., Ratajczak, J., Ratajczak, M., Kuczynski, W., DiPaola, R., Ngo, W., Clevenger, C. and Gewirtz, A. 1996. A functional analysis of protooncogene Vav's role in adult human hematopoiesis. Blood 87: 1326-1334.
6. Wu, J., Motto, D.G., Koretzky, G.A. and Weiss, A. 1996. Vav and SLP-76 interact and functionally cooperate in IL-2 gene activation. Immunity 4: 593-602.
7. Motto, D.G., Ross, S.E., Wu, J., Hendricks-Taylor, L.R. and Koretzky, G.A. 1996. Implication of the GRB2-associated phosphoprotein SLP-76 in T cell receptor-mediated interleukin-2 production. J. Exp. Med. 183: 1937-1943.


## CHROMOSOMAL LOCATION

Genetic locus: LCP2 (human) mapping to 5q35.1.

## PRODUCT

SLP-76 (h3): 293T Lysate represents a lysate of human SLP-76 transfected 293T cells and is provided as 100 µg protein in 200 µl 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 (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive SLP-76 antibodies. Recommended use: 10-20 µl per lane.

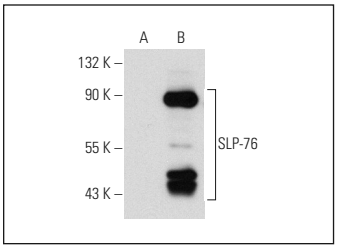
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

SLP-76 (F-7): sc-13151 is recommended as a positive control antibody for Western Blot analysis of enhanced human SLP-76 expression in SLP-76 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-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® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA




SLP-76 (F-7): sc-13151. Western blot analysis of SLP-76 expression in non-transfected: sc-117752 (**A**) and human SLP-76 transfected: sc-175892 (**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.