

## SLP-76 (234-533): sc-4379 WB

### BACKGROUND

The 95 kDa 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's 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 (SH2 domain-containing leukocyte protein of 76 kDa) 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  $\gamma$ 1. The discovery of SLP-76 represents an important step in elucidating the mechanism of Vav trans-formation and TCR-mediated NFAT activation.

### REFERENCES

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### SOURCE

SLP-76 (234-533) is expressed in *E. coli* as a 54 kDa tagged fusion protein corresponding to amino acids 234-533 of SLP-76 of human origin.

### PRODUCT

SLP-76 (234-533) is purified from bacterial lysates (>98%) by column chromatography; supplied as 10  $\mu$ g protein in 0.1 ml SDS-PAGE loading buffer.

### APPLICATIONS

SLP-76 (234-533) is suitable as a Western blotting control for sc-1961, sc-9062 and sc-13151.

### STORAGE

Store at -20° C; stable for one year from the date of shipment.

### RESEARCH USE

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