SLP-76 (F-7): sc-13151

**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'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 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 associate physically 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.

**CHROMOSOMAL LOCATION**

Genetic locus: LCP2 (human) mapping to 5q35.1; Lcp2 (mouse) mapping to 11 A4.

**SOURCE**

SLP-76 (F-7) is a mouse monoclonal antibody raised against amino acids 234-533 of SLP-76 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG, kappa light chain in 1.0 ml of PBS with <0.1 sodium azide and 0.1% gelatin.

SLP-76 (F-7) is available conjugated to agarose (sc-13151 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-13151 HRP), 200 µg/ml, for WB, IHC(PO) and ELISA; to either phycoerythrin (sc-13151 PE), fluorescein (sc-13151 FITC), Alexa Fluor® 488 (sc-13151 AF488), Alexa Fluor® 546 (sc-13151 AF546), Alexa Fluor® 594 (sc-13151 AF594) or Alexa Fluor® 647 (sc-13151 AF647), 200 µg/ml, for WB (RGB), IF, IHC(PO) and FC; and to either Alexa Fluor® 594 (sc-13151 AF594) or Alexa Fluor® 790 (sc-13151 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FC.

**APPLICATIONS**

SLP-76 (F-7) is recommended for detection of SLP-76 of mouse, rat and human origin by Western Blotting [starting dilution 1:1,000, dilution range 1:1,000-1:5,000], immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for SLP-76 siRNA (h): sc-36501, SLP-76 shRNA (m): sc-36502, SLP-76 shRNA Plasmid (h): sc-36501-SH, SLP-76 shRNA Plasmid (m): sc-36502-SH, SLP-76 shRNA (h) Lentiviral Particles: sc-36501-V and SLP-76 shRNA (m) Lentiviral Particles: sc-36502-V.

Molecular Weight of SLP-76: 76 kDa.

Positive Controls: THP-1 cell lysate: sc-2238, SLP-76 (h3): 293T Lysate: sc-175892 or AML-193 whole cell lysate: sc-364182.

**STORAGE**

Store at 4° C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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

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