

Datasheet: MCA2377

Description:	MOUSE ANTI SLP-76
Specificity:	SLP-76
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	SLP-76/03
Isotype:	IgG2b
Quantity:	0.1 mg

Product Details

RRID AB_2136892

Applications This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			1/500

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species Human

Species Cross Reactivity Reacts with: Pig, Mouse
N.B. Antibody reactivity and working conditions may vary between species.

Product Form Purified IgG - liquid

Preparation Purified IgG prepared by affinity chromatography on Protein G

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.09% Sodium Azide

Approx. Protein Concentrations Ig concentration 1.0 mg/ml

Immunogen A fusion protein corresponding to amino acids 216-434 of human SLP-76.

External Database Links

UniProt:
[Q13094](#) [Related reagents](#)

Entrez Gene:
[3937](#) LCP2 [Related reagents](#)

Specificity

Mouse anti SLP-76 antibody, clone SLP-76/03 recognises the SH2 domain-containing leucocyte protein, also known as SLP-76 or Lymphocyte cytosolic protein 2. SLP-76 is a ~76 kDa tyrosine phosphoprotein, expressed primarily by T lymphocytes and cells of the myeloid lineage.

SLP-76 is one of several adaptor proteins assisting with TCR-mediated signal transduction, through GRB2 binding, functioning as a substrate for the protein-tyrosine kinase ZAP-70 and thus playing a crucial role in both T cell ontogeny and activation. Other molecules that associate with SLP-76 include phospholipase C (PLC)-gamma, Vav, Nck and fyn binding protein.

Western Blotting

MCA2377 detects a band of approximately 76kDa in T lymphocyte cell lysates.

References

1. Di Bartolo V *et al.* (2007) A novel pathway down-modulating T cell activation involves HPK-1-dependent recruitment of 14-3-3 proteins on SLP-76. [J Exp Med. 204 \(3\): 681-91.](#)
 2. Brockmeyer, C. *et al.* (2011) T cell receptor (TCR)-induced tyrosine phosphorylation dynamics identifies themis as a new TCR signalosome component. [J Biol Chem. 286: 7535-47.](#)
 3. Lasserre, R. *et al.* (2011) Release of serine/threonine-phosphorylated adaptors from signaling microclusters down-regulates T cell activation. [J Cell Biol. 195 \(5\): 839-53.](#)
 4. Lasserre, R. *et al.* (2010) Ezrin tunes T-cell activation by controlling Dlg1 and microtubule positioning at the immunological synapse. [EMBO J. 29: 2301-14.](#)
 5. Paster, W. *et al.* (2013) GRB2-mediated recruitment of THEMIS to LAT is essential for thymocyte development. [J Immunol. 190 \(7\): 3749-56.](#)
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Further Reading

1. Bonilla, F.A. *et al.* (2000) Adapter proteins SLP-76 and BLNK both are expressed by murine macrophages and are linked to signaling via Fcgamma receptors I and II/III. [Proc Natl Acad Sci U S A. 97 \(4\): 1725-30.](#)
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Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody.

Guarantee

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Human Anti Mouse IgG2b (HCA038...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®680](#),
[DyLight®800](#), [FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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'M345600:190125'

Printed on 20 May 2019

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