

Datasheet: MCA2383

Description:	MOUSE ANTI SYK
Specificity:	SYK
Other names:	SPLEEN TYROSINE KINASE
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	SYK-01
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

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	▪			

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse, Rat

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	< 0.1% sodium azide (NaN ₃)
Approx. Protein Concentrations	Ig concentration 1.0 mg/ml
Immunogen	Recombinant fragment corresponding to amino acids 5 - 360 of human syk.
External Database Links	<p>UniProt: P43405 Related reagents</p> <p>Entrez Gene: 6850 SYK Related reagents</p>
RRID	AB_2200253
Specificity	<p>Mouse anti Human syk antibody, clone SYK-01 recognizes protein tyrosine kinase p72^{syk} (syk), a ~72kDa non-receptor tyrosine kinase, critical for immunoreceptor signaling in haematopoietic cells, but also expressed by nonhaematopoietic cells, including fibroblasts, endothelial cells and hepatocytes.</p> <p>Syk plays an important role in mast cell response, initiated by the aggregation of the IgE high affinity receptor Fc epsilon R1. Phosphorylation of ITAMs within Fc receptor R1 by another tyrosine kinase lyn, results in the recruitment of syk, which is then responsible for the further phosphorylation of numerous target proteins within many different signal transduction pathways.</p> <p>Syk also plays a major role in B cell receptor-mediated apoptosis, proliferation and haematopoiesis. Syk associates with protein kinase C alpha during platelet activation.</p>
Western Blotting	Mouse anti Human Syk antibody, clone SYK-01 detects a band of approximately 72 kDa in Ramos & RBL cell lysates.
References	<ol style="list-style-type: none"> 1. Amoui, M. <i>et al.</i> (1997) Direct interaction of Syk and Lyn protein tyrosine kinases in rat basophilic leukemia cells activated via type I Fc epsilon receptors. Eur J Immunol. 27(1): 321-328. 2. Arudchandran, R.<i>et al.</i> (2000) The src homology 2 domain of Vav is required for its compartmentation to the plasma membrane and activation of c-Jun NH2-terminal kinase 1. J Exp Med. 191(1): 47-59. 3. Manetz, T.S. <i>et al.</i> (2001) Vav1 regulates phospholipase C gamma activation and calcium responses in mast cells. Mol. Cell. Biol. 21(11): 3763-3774. 4. Swann, P.G.<i>et al.</i> (1999) Requirement for a negative charge at Threonine 60 of the FcR gamma for complete activation of Syk. J. Biol. Chem. 274(33): 23068-23077.
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for

short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2383 10040
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
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