

## Datasheet: MCA2383

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|----------------------|------------------------|
| <b>Description:</b>  | MOUSE ANTI SYK         |
| <b>Specificity:</b>  | SYK                    |
| <b>Other names:</b>  | SPLEEN TYROSINE KINASE |
| <b>Format:</b>       | Purified               |
| <b>Product Type:</b> | Monoclonal Antibody    |
| <b>Clone:</b>        | SYK-01                 |
| <b>Isotype:</b>      | IgG1                   |
| <b>Quantity:</b>     | 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](http://www.bio-rad-antibodies.com/protocols).

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

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: 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

|                                       |   |
|---------------------------------------|---|
| <b>Buffer Solution</b>                | Phosphate buffered saline   |
| <b>Preservative Stabilisers</b>       | 0.09% Sodium Azide  |
| <b>Approx. Protein Concentrations</b> | Ig concentration 1.0 mg/ml  |
| <b>Immunogen</b>                      | Recombinant fragment corresponding to amino acids 5 - 360 of human syk.   |
| <b>External Database Links</b>        | <p><b>UniProt:</b><br/> <a href="#">P43405</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">6850</a>    SYK    <a href="#">Related reagents</a></p>  |
| <b>RRID</b>                           | AB_2200253  |
| <b>Specificity</b>                    | <p><b>Mouse anti Human Syk antibody, clone SYK-01</b> recognizes protein tyrosine kinase p72<sup>syk</sup> (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> |
| <b>Western Blotting</b>               | MCA2383 detects a band of approximately 72kDa in Ramos & RBL cell lysates.  |
| <b>References</b>                     | <ol style="list-style-type: none"> <li>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. <a href="#">Eur J Immunol. 27(1): 321-328.</a></li> <li>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. <a href="#">J Exp Med. 191(1): 47-59.</a></li> <li>3. Manetz, T.S. <i>et al.</i> (2001) Vav1 regulates phospholipase C gamma activation and calcium responses in mast cells. <a href="#">Mol. Cell. Biol. 21(11): 3763-3774.</a></li> <li>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. <a href="#">J. Biol. Chem. 274(33): 23068-23077.</a></li> </ol>                 |
| <b>Storage</b>                        | <p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may</p>  |

denature the antibody.

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| <b>Guarantee</b> | 12 months from date of despatch |
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|--------------------------------------|--|
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10040 available at:<br>10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a> |
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|-------------------|----------------------------|
| <b>Regulatory</b> | For research purposes only |
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## Related Products

### Recommended Secondary Antibodies

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|---|--|
| Goat Anti Mouse IgG (STAR77...)         | <a href="#">HRP</a>  |
| Rabbit Anti Mouse IgG (STAR12...)       | <a href="#">RPE</a>  |
| Rabbit Anti Mouse IgG (STAR8...)        | <a href="#">DyLight@800</a>  |
| Goat Anti Mouse IgG (STAR76...)         | <a href="#">RPE</a>  |
| Goat Anti Mouse IgG (STAR70...)         | <a href="#">FITC</a>   |
| Goat Anti Mouse IgG (H/L) (STAR117...)  | <a href="#">Alk. Phos.</a> , <a href="#">DyLight@488</a> , <a href="#">DyLight@680</a> ,<br><a href="#">DyLight@800</a> , <a href="#">FITC</a> , <a href="#">HRP</a> |
| Rabbit Anti Mouse IgG (STAR9...)        | <a href="#">FITC</a>   |
| Rabbit Anti Mouse IgG (STAR13...)       | <a href="#">HRP</a>  |
| Goat Anti Mouse IgG (Fc) (STAR120...)   | <a href="#">FITC</a> , <a href="#">HRP</a>   |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | <a href="#">Alk. Phos.</a> , <a href="#">HRP</a>   |

### Recommended Negative Controls

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

|                                  |   |                  |   |               |   |
|----------------------------------|---|------------------|---|---------------|---|
| <b>North &amp; South America</b> | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a> | <b>Worldwide</b> | Tel: +44 (0)1865 852 700<br>Fax: +44 (0)1865 852 739<br>Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a> | <b>Europe</b> | Tel: +49 (0) 89 8090 95 21<br>Fax: +49 (0) 89 8090 95 50<br>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a> |
|----------------------------------|---|------------------|---|---------------|---|

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)  
'M377081:210212'

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