

Datasheet: AHP1066

BATCH NUMBER 158641

Description:	GOAT ANTI SYK
Specificity:	SYK
Other names:	SPLEEN TYROSINE KINASE
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
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	▪			1/16000
Immunoprecipitation			▪	
Western Blotting	▪			1.0 - 3.0ug/ml
Functional Assays			▪	

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

Based on sequence similarity, is expected to react with: Mouse, Dog, 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

Antiserum Preparation Antisera to SYK were raised by repeated immunisations of goat with highly purified

antigen. Purified IgG prepared by affinity chromatography.

Buffer Solution TRIS buffered saline

Preservative 0.02% Sodium Azide (NaN₃)
Stabilisers 0.5% Bovine Serum Albumin

Approx. Protein Concentrations IgG concentration 0.5mg/ml

Immunogen Peptide with sequence C-KYLQQRHVKDKN from the internal region of the SYK sequence.

External Database

Links

UniProt:

[P43405](#) [Related reagents](#)

Entrez Gene:

[6850](#) SYK [Related reagents](#)

RRID AB_2200254

Specificity

Goat anti Syk antibody detects an epitope within the internal region of SYK, a ~70 kDa non-receptor protein tyrosine kinase whose role differs in haematopoietic and non haematopoietic stem cells. In haematopoietic cells SYK is involved in the proximal signalling downstream of activated immunoreceptors (BCR, TCR, Fc receptors), thereby orchestrating a complex series of cellular responses such as cell proliferation, differentiation, survival and phagocytosis.

In epithelial cells SYK appears to function as a negative regulator of related events. Furthermore, SYK has been shown to promote expression or secretion of inflammation-related molecules in lung epithelial cells.

SYK appears to be required for vascular integrity during development, thus, manipulation of SYK function in endothelial cells could potentially modulate tumour-associated angiogenesis. SYK also has been shown to interact with Epstein-Barr virus LMP2A.

Western Blotting AHP1066 detects a band of approximately 70kDa in human bone marrow, lymph node and spleen lysates.

References

1. Coopman, P.J. & Mueller, S.C. (2006) The Syk tyrosine kinase: a new negative regulator in tumor growth and progression. [Cancer Lett. 241 \(2\): 159-73.](#)
 2. Wong, B.R. *et al.* (2004) Targeting Syk as a treatment for allergic and autoimmune disorders. [Expert Opin Investig Drugs. 13 \(7\): 743-62.](#)
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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 #10058 available at: https://www.bio-rad-antibodies.com/SDS/AHP1066 10058
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

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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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