

Datasheet: AHP1066

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.
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 (NaN ₃)
Stabilisers	0.5% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.5mg/ml

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

External Database Links

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

Entrez Gene:
[6850](#) SYK [Related reagents](#)

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

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. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10058 available at:
10058: <https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

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