

Product datasheet for **TA389220**

SYK Mouse Antibody [Clone ID: M373]

Product data:

Product Type:	Primary Antibodies
Clone Name:	M373
Applications:	WB
Recommended Dilution:	WB: 1:250
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Isotype:	IgG1
Immunogen:	Clone M373 was generated from a sequence corresponding to amino acids in the central region of human Syk. This sequence has high homology to mouse and rat Syk.
Specificity:	This antibody detects a 72 kDa* protein corresponding to the molecular mass of Syk on SDS-PAGE immunoblots of adult mouse spleen.
Formulation:	PBS + 1 mg/ml BSA, 0.05% NaN ₃ and 50% glycerol
Concentration:	lot specific
Purification:	Protein A Purified
Conjugation:	Unconjugated
Storage:	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size:	72
Database Link:	P43405



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Background:

Syk is a member of the family of non-receptor type protein-tyrosine kinases and plays a crucial role in lymphocyte signaling and development. Syk is expressed in all hematopoietic cells and contributes to the signal transduction process by binding to a tyrosine-based activation motif (ITAM) of immune receptors, including Ig α , TCR ζ , CD3 ϵ , Fc ϵ RI β , and Fc ϵ R η . Upon receptor activation, Syk binds to phosphorylated ITAMs via its two N-terminal SH2 domains, thereby activating Syk and causing tyrosines in Syk to undergo auto-phosphorylation or phosphorylation. These phosphorylated sites can act as binding sites for other signaling molecules or help to regulate enzymatic activity. For example, in mast cells, Syk can activate downstream targets such as phospholipase C γ 1 and VAV. Studies in Syk $^{-/-}$ mast cells identified defects in both the ERK-MAP and JNK-MAP kinase pathways.

Note:

Protein G purified tissue culture supernatant.