

anti-human Syk

Monoclonal Antibody SYK-01 to Syk (Human)

Cat-No: 21276011

100 µg in 100 µl

Clone: SYK-01

Specificity: The antibody SYK-01 reacts with protein tyrosine kinase p72Syk (Syk; Syk family tyrosine-specific phospho-transferase), which is required for the transduction of signals through the B cell antigen receptor (BCR) and the high affinity IgE receptor (FcεRI).

Isotype subclass: Mouse IgG1

Form: Purified from ascites by protein-A affinity chromatography.

Physical state: Liquid

Buffer/Additives/Preservative: PBS, pH 7.2, containing 0.09% sodium azide.

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Store at 4 °C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

Application: Immunocytochemistry, Immunoprecipitation, Western Blotting

References:

- *Tolar P and others: Eur J Immunol. 1997 Dec;27(12):3389-97.
- *Amoui M and others: Eur J Immunol. 1997 Jan;27(1):321-8.
- *Ma H and others: J Immunol. 2001 Feb 1;166(3):1507-16.
- *Swann PG and others: J Biol Chem. 1999 Aug 13;274(33):23068-77.
- *Arudchandran R and others: J Exp Med. 2000 Jan 3;191(1):47-60.
- *Kovarova M and others: Mol Cell Biol. 2001 Dec;21(24):8318-28.
- *Manetz TS and others: Mol Cell Biol. 2001 Jun;21(11):3763-74.
- *Parravicini V and others: Nat Immunol. 2002 Aug;3(8):741-8. Epub 2002 Jul 1.

Background: Syk is a cytoplasmic protein tyrosine kinase that translocates to the plasma membrane upon B cell antigen receptor (BCR) or the high-affinity IgE receptor (FcεRI) triggering, and phosphorylates downstream adaptor proteins, thereby providing docking sites for initiation of subsequent signaling pathways, such as calcium mobilization, cytoskeleton remodeling, or transcription of specific genes. Syk binds to the receptor assemblies through interactions of its pair of SH2 domains with ITAM motives of the receptor, which have been phosphorylated by Src-family kinases. These kinases also help to activate Syk by phosphorylation of its activation loop.

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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