

Anti-SYK Purified Monoclonal Antibody

Catalog Number: M00490

About SYK

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.

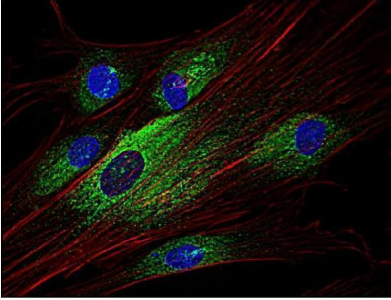
Overview

Product Name	Anti-SYK Purified Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-SYK Purified Monoclonal Antibody (Catalog# M00490). Tested in IP, WB, IHC-P, ICC application(s). This antibody reacts with Human, Rat, Mouse.
Application	IP, IHC-P, ICC, WB
Clonality	Monoclonal SYK-01
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	P43405

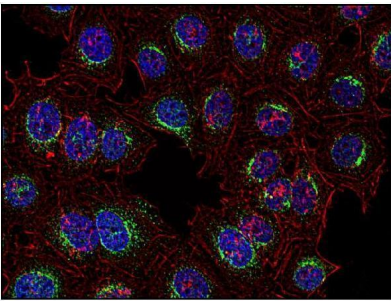
Technical Details

Immunogen	Recombinant fragment (aa 5-360) of human Syk. The antibody SYK-01 reacts with protein tyrosine kinase p72Syk (Syk; an intracellular antigen), which is required for the transduction of signals through the B cell antigen receptor (BCR) and the high affinity IgE receptor (FcεRI).
Predicted Reactive Species	Primate
Isotype	Mouse IgG1
Form	Liquid
Concentration	1 mg/ml
Purification	Purified by protein-A affinity chromatography.
Suggested Dilutions	Western blotting: 1-2 ug/ml. Immunohistochemistry (paraffin sections): 5 ug/ml; positive tissue: tonsil B cells.

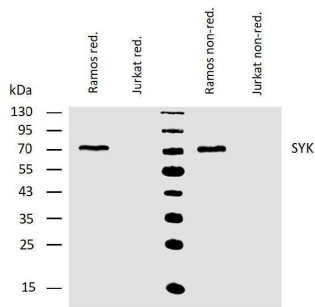
Anti-SYK Purified Monoclonal Antibody (M00490) Images



Immunocytochemistry analysis of Syk in human primary fibroblasts using anti-Syk (SYK-01; green). Actin cytoskeleton was decorated by phalloidin (red) and cell nuclei stained with DAPI (blue).



Immunocytochemistry analysis of Syk in human HeLa cell line using anti-Syk (SYK-01; green). Actin cytoskeleton was decorated by phalloidin (red) and cell nuclei stained with DAPI (blue).



Western blotting analysis of human Syk using mouse monoclonal antibody SYK-01 on lysates of Ramos and Jurkat (negative control) cells under reducing and non-reducing conditions. Nitrocellulose membrane was probed with 2 µg/ml of mouse anti-Syk monoclonal antibody followed by IRDye800-conjugated anti-mouse secondary antibody. Syk was detected around 72 kDa.

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