

### 30-1252: Anti-Syk Monoclonal Antibody (Clone:SYK-01)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	SYK-01
<b>Application :</b>	IP
<b>Reactivity :</b>	Mouse
<b>Gene :</b>	SYK
<b>Gene ID :</b>	6850
<b>Uniprot ID :</b>	P43405
<b>Format :</b>	Purified
<b>Alternative Name :</b>	SYK
<b>Isotype :</b>	Mouse IgG1
<b>Immunogen Information :</b>	Recombinant fragment (aa 5-360) of human Syk.

#### Description

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.

#### Product Info

<b>Amount :</b>	0.1 mg
<b>Purification :</b>	Purified by protein-A affinity chromatography
<b>Storage condition :</b>	Store at 2-8°C. Do not freeze.

#### Application Note

**Immunofluorescence Western Blotting** *Recommended dilution:*

1-2 µg/ml, 60 min

*Positive control:*

RBL rat basophilic leukemia cell line

A-431 human epidermoid carcinoma cell line

RAMOS lymphoma cell line

U-937 human histiocytic lymphoma cell line

JURKAT human peripheral blood T cell leukemia cell line

*Negative control:*

HeLa human cervix carcinoma cell line

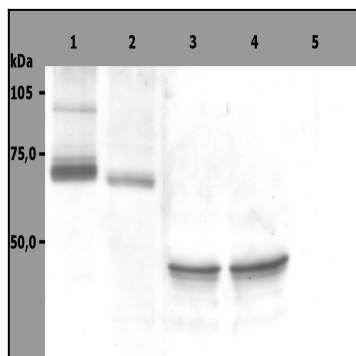


Figure 1: Western Blotting analysis (non-reducing conditions) of whole cell lysate of RAMOS human Burkitt lymphoma cell line (1), RBL rat basophilic leukemia cell line (2) and HeLa human cervix carcinoma cell line (3, 4). Lane 2: immunostaining with anti-Syk (SYK-01). Lane 3, 4: immunostaining with anti-human Cytokeratin 18 (DC-10; ). Lane 5: negative control

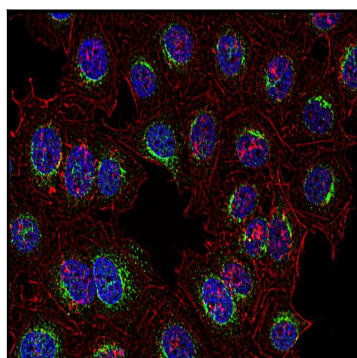


Figure 2: Immunofluorescence staining of Syk in human HeLa cell line using anti-Syk (SYK-01; green). Actin cytoskeleton was decorated by phalloidin (red) and cell nuclei stained with DAPI (blue).

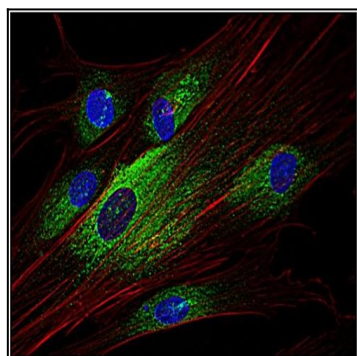


Figure 3: Immunocytochemistry analysis of Syk in human primary fibroblasts using anti-Syk (SYK-01; green). Actin cytoskeleton was decorated by phalloidin (red) and cell nuclei stained with DAPI (blue).