CELL APPLICATIONS, INC.

Phospho Syk (Tyr525/526) Polyclonal Antibody
Cat. No. CC1036

Applications:	WB, IP, IHC
Detected MW:	72 kDa
Species & Reactivity:	human, mouse, rat
Isotype:	Rabbit IgG

BACKGROUND

Spleen tyrosine kinase (Syk) is a non-receptor protein tyrosine kinase expressed in a wide range of hematopoietic cells.[1] Syk has not only been recognized as a key player in both innate and adaptive immunity, but there is also evidence of a role for Syk in non-immune cells and in the maintenance of vascular integrity,[2] as well as the pathogenesis of malignant cancer.[3] Syk contains two SH2 domains in tandem, and multiple auto-phosphorylation sites. Syk is activated upon binding of tandem SH2 domains to the immuno-receptor tyrosine-based activating motif (ITAM) of various types of receptors such as FcγR, CR3, Dectin-1, and apoptotic cell-recognizing receptor. Syk is critical for the tyrosine phosphorylation of multiple proteins which regulate important pathways downstream of the receptor, such as Ca^{2+} mobilization, mitogen-activated protein kinase (MAPK) cascades, PI-3 kinase pathway and many other signaling pathways.[4]

References:
1. Nilsson, S. et al: Physiol Rev 81:1535–65, 2001.
2. Tremblay, G. B. et al: Mol Endocrinol. 11: 353-365, 1997.
3. Mathews, J & Gustafsson, J. A.: Mol. Interv. 3:281-92, 2003.
4. Tremblay, A. et al: Mol Cell 3, 513–519, 1999.

TECHNICAL INFORMATION

Source:
Affinity purified Phospho-Syk (Tyr525/526) antibody is a rabbit polyclonal antibody raised against the epitope surrounding and including Tyr525 and Tyr526 of human Syk sequence.

Specificity and Sensitivity:
This antibody detects endogenous phospho-human, mouse and rat Syk proteins.
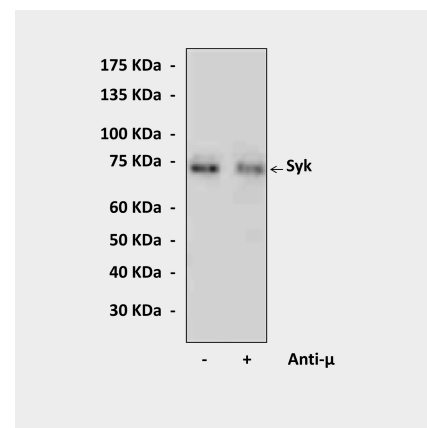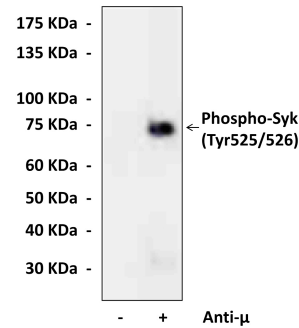
Storage Buffer: PBS and 30% glycerol

Storage:
Store at -20°C for at least one year. Store at 4°C for frequent use. Avoid repeated freeze-thaw cycles.

APPLICATIONS

Application:	*Dilution:
WB	1:1000
IP	n/d
IHC (Paraffin)	n/d
ICC	n/d
FACS	n/d
*Optimal dilutions must be determined by end user.	

QUALITY CONTROL DATA

Ramos cells were stimulated with anti-mu antibodies and applied onto Western blot analysis using Phospho-Syk (Tyr525/6) rabbit polyclonal antibody **(Top)**, and Syk antibody **(Bottom)**.