

PhosphoPlus® Syk (Tyr525/526) Antibody Duet

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UniProt ID: #P43405
Entrez-Gene Id: 6850

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
Phospho-Syk (Tyr525/526) (C87C1) Rabbit mAb	2710	100 µl	72 kDa	Rabbit IgG
Syk (D3Z1E) XP® Rabbit mAb	13198	100 µl	72 kDa	Rabbit IgG

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description

PhosphoPlus® Duets from Cell Signaling Technology (CST) provide a means to assess protein activation status. Each Duet contains an activation-state and total protein antibody to your target of interest. These antibodies have been selected from CST's product offering based upon superior performance in specified applications.

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Background

Syk is a protein tyrosine kinase that plays an important role in intracellular signal transduction in hematopoietic cells (1-3). Syk interacts with immunoreceptor tyrosine-based activation motifs (ITAMs) located in the cytoplasmic domains of immune receptors (4). It couples the activated immunoreceptors to downstream signaling events that mediate diverse cellular responses, including proliferation, differentiation, and phagocytosis (4). There is also evidence of a role for Syk in nonimmune cells and investigators have indicated that Syk is a potential tumor suppressor in human breast carcinomas (5). Tyr323 is a negative regulatory phosphorylation site within the SH2-kinase linker region in Syk. Phosphorylation at Tyr323 provides a direct binding site for the TKB domain of Cbl (6,7). Tyr352 of Syk is involved in the association of PLCγ1 (8). Tyr525 and Tyr526 are located in the activation loop of the Syk kinase domain; phosphorylation at Tyr525/526 of human Syk (equivalent to Tyr519/520 of mouse Syk) is essential for Syk function (9).

Background References

1. Cheng, A.M. and Chan, A.C. (1997) *Curr Opin Immunol* 9, 528-33.
2. Kurosaki, T. (1997) *Curr Opin Immunol* 9, 309-18.
3. Chu, D.H. et al. (1998) *Immunol Rev* 165, 167-80.
4. Turner, M. et al. (2000) *Immunol Today* 21, 148-54.
5. Coopman, P.J. et al. (2000) *Nature* 406, 742-7.
6. Deckert, M. et al. (1998) *J Biol Chem* 273, 8867-74.
7. Rao, N. et al. (2001) *EMBO J* 20, 7085-95.
8. Law, C.L. et al. (1996) *Mol Cell Biol* 16, 1305-15.
9. Zhang, J. et al. (2000) *J Biol Chem* 275, 35442-7.

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