Phospho-Syk (Tyr525/526) (C87C1) Rabbit mAb

#2710

Important: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking.

For Research Use Only. Not For Use In Diagnostic Procedures.

**Applications**
- Western
- IP
- IF-IC
- Fluorescence

**Species Cross-Reactivity**
- H, (M, R)

**Molecular Wt.**
- 72 kDa

**Isotype**
- Rabbit IgG

**Storage:**
- Provided in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 0.02% sodium azide. Store at −20°C. No aliquot the antibody.

**Recommended Antibody Dilutions:**
- Western Blotting: 1:1000
- Immunoprecipitation: 1:50
- Immunofluorescence (IF-IC): 1:200
- Flow Cytometry: 1:400

**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). Tyr332 is a negative regulatory phosphorylation site within the SH2 kinase linker region in Syk. Phosphorylation at Tyr332 provides a direct binding site for the TKB domain of Cbl (6,7). Tyr325 of Syk is involved in the association of PLCγ. (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).

**Specificity/Sensitivity:**
Phospho-Syk (Tyr525/526) (C87C1) Rabbit mAb detects endogenous levels of Syk protein only when phosphorylated at Tyr525/526 of human Syk or Tyr519/520 of mouse Syk. It also detects Syk protein when singly phosphorylated at Tyr526 of human Syk or Tyr520 of mouse Syk. It does not cross-react with other tyrosine-phosphorylated protein tyrosine kinases.

**Source/Purification:**
Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr525/526 of human Syk.

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**For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com.**

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Flow cytometric analysis of Ramos cells, untreated (blue) or treated with anti-IgM (green), using Phospho-Syk(Tyr525/526) (C87C1) Rabbit mAb. Anti-rabbit IgG (H+L), F(ab')2 Fragment (PE Conjugate) #8885 was used as a secondary antibody.