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Syk (D3Z1E) XP[®] Rabbit mAb (Alexa Fluor[®] 647 Conjugate)



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For Research Use Only. Not for Use in Diagnostic Procedures.

 Applications:
 Reactivity:
 Sensitivity:
 Source/Isotype:
 UniProt ID:
 Entrez-Gene Id:

 FC-FP
 H M R
 Endogenous
 Rabbit IgG
 #P43405
 6850

Product Usage
InformationApplicationDilutionFlow Cytometry (Fixed/Permeabilized)1:50

Storage Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.

Specificity / Sensitivity Syk (D3Z1E) XP® Rabbit mAb (Alexa Fluor® 647 Conjugate) recognizes endogenous levels of total Syk

protein.

Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to

residues around Asn463 of human Syk protein.

Product DescriptionThis Cell Signaling Technology antibody is conjugated to Alexa Fluor® 647 fluorescent dye and tested inhouse for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same

nouse for direct flow cytometry analysis in numan cells. This antibody is expected to exhibit the species cross-reactivity as the unconjugated Syk (D3Z1E) XP^{\otimes} Rabbit mAb #13198.

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 CbI (6,7). Tyr352 of Syk is involved in the association of PLCy1 (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.

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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