

#3165 Store at -20°C

Zap-70 (D1C10E) XP® Rabbit mAb


Cell Signaling
TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, W-S, IP, IF-IC, FC-FP	H M	Endogenous	70	Rabbit IgG	#P43403	7535

Product Usage Information

Application

Western Blotting
Simple Western™
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)
Flow Cytometry (Fixed/Permeabilized)

Dilution

1:1000
1:10 - 1:50
1:50
1:200 - 1:800
1:200 - 1:800

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.

For a carrier free (BSA and azide free) version of this product see product #69022.

Specificity / Sensitivity

Zap-70 (D1C10E) XP® Rabbit mAb detects endogenous levels of total Zap-70. This antibody does not cross-react with other related proteins.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding the amino terminus of human Zap-70.

Background

The Syk family protein tyrosine kinase Zap-70 is expressed in T and NK cells and plays a critical role in mediating T cell activation in response to T cell receptor (TCR) engagement (1). Following TCR engagement, Zap-70 is rapidly phosphorylated on several tyrosine residues through autophosphorylation and transphosphorylation by the Src family tyrosine kinase Lck (2-6). Tyrosine phosphorylation correlates with increased Zap-70 kinase activity and downstream signaling events. Expression of Zap-70 is correlated with disease progression and survival in patients with chronic lymphocytic leukemia (7,8).

Background References

1. Chu, D.H. et al. (1998) *Immunol Rev* 165, 167-80.
2. Iwashima, M. et al. (1994) *Science* 263, 1136-9.
3. Neumeister, E.N. et al. (1995) *Mol Cell Biol* 15, 3171-8.
4. Chan, A.C. et al. (1995) *EMBO J* 14, 2499-508.
5. Williams, B.L. et al. (1999) *EMBO J* 18, 1832-44.
6. Di Bartolo, V. et al. (1999) *J Biol Chem* 274, 6285-94.
7. Wiestner, A. et al. (2003) *Blood* 101, 4944-51.
8. Crespo, M. et al. (2003) *N Engl J Med* 348, 1764-75.

Species Reactivity

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

Western Blot Buffer

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

Applications Key

WB: Western Blotting **W-S:** Simple Western™ **IP:** Immunoprecipitation
IF-IC: Immunofluorescence (Immunocytochemistry) **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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