

#2732 Store at -20°C

# Lyn Antibody

✓ 100 µl  
(10 western blots)



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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Entrez-Gene ID #4067  
Swiss-Prot Acc. #P07948

Applications W, IP Endogenous	Species Cross-Reactivity* H, M, R, Mk	Molecular Wt. 56 kDa	Source Rabbit**
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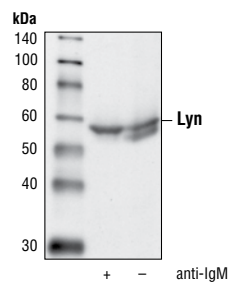
**Background:** Lyn, one of the Src family members, is predominantly expressed in hematopoietic cells (1). Two tyrosyl residues have been reported to play a crucial role in the regulation of protein tyrosine kinases of the Src family. Autophosphorylation of Tyr396 (equivalent to Tyr416 of Src), located in the catalytic domain, correlates with enzyme activation. Csk-mediated phosphorylation of the carboxy-terminal Tyr507 (equivalent to Tyr527 of Src) inactivates the kinase. Tyrosine phosphorylation and activation of Lyn occurs upon association with cell surface receptors such as the B cell Ag receptor (BCR) and CD40 (2-4). Studies using knockout mice have shown that the net effect of Lyn deficiency is to render B cells hypersensitive to BCR stimulation (5-7), suggesting that the most critical role for Lyn *in vivo* is in the down-regulation of B cell responses. Lyn is also involved in controlling the migration and development of specific B cell populations (8).

**Specificity/Sensitivity:** Lyn Antibody detects endogenous levels of the 56 kDa isoform of Lyn. It does not recognize the 53 kDa Lyn isoform.

**Source/Purification:** Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the amino-terminal sequence of human Lyn. Antibodies are purified by protein A and peptide affinity chromatography.

**Background References:**

- (1) Yamanashi, Y. et al. (1989) *Proc. Natl. Acad. Sci. USA* 86, 6538-6542.
- (2) Yamanashi, Y. et al. (1991) *Science* 251, 192-194.
- (3) Burkhardt, A.L. et al. (1991) *Proc. Natl. Acad. Sci. USA* 88, 7410-7414.
- (4) Ren, C.L. et al. (1994) *J. Exp. Med.* 179, 673-680.
- (5) Wang, J. et al. (1996) *J. Exp. Med.* 184, 831-838.
- (6) Chan, V.W. et al. (1997) *Immunity* 7, 69-81.
- (7) Hibbs, M.L. et al. (1995) *Cell* 83, 301-311.
- (8) Seo, S.J. et al. (2001) *J. Immunol.* 166, 3710-3723.



Western blot analysis of extracts from Ramos cells treated with anti-IgM antibody (12 µg/ml for 2 minutes) or untreated, using Lyn Antibody.

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

\*Species cross-reactivity is determined by western blot.

\*\*Anti-rabbit secondary antibodies must be used to detect this antibody.

**Recommended Antibody Dilutions:**

Western blotting	1:1000
Immunoprecipitation	1:100

For application specific protocols please see the web page for this product at [www.cellsignal.com](http://www.cellsignal.com).

Please visit [www.cellsignal.com](http://www.cellsignal.com) for a complete listing of recommended companion products.

**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, overnight.**

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**Applications Key:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide  
**Species Cross-Reactivity Key:** H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.