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# Fyn Antibody

Store at -20C  
#4023

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

<b>Applications:</b> W	<b>Reactivity:</b> H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 59	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P06241	<b>Entrez-Gene Id:</b> 2534
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## Product Usage Information

### Application

Western Blotting

### Dilution

1:1000

## 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.

## Specificity/Sensitivity

Fyn Antibody detects endogenous levels of total Fyn proteins. This antibody does not cross-react with Src and Hck family members.

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser25 of human Fyn. Antibodies are purified by protein A and peptide affinity chromatography.

## Background

The Src family of protein tyrosine kinases, which includes Src, Lyn, Fyn, Yes, Lck, Blk, and Hck, are important in the regulation of growth and differentiation of eukaryotic cells (1). Src activity is regulated by tyrosine phosphorylation at two sites, but with opposing effects. While phosphorylation at Tyr416 in the activation loop of the kinase domain upregulates enzyme activity, phosphorylation at Tyr530 in the carboxy-terminal tail by Csk renders the enzyme less active (2).

Fyn is a 59 kDa member of the Src family of tyrosine kinases. The carboxy terminus of Fyn shares extensive amino acid sequence homology with Src, but is very different within the amino-terminal 81 amino acid residues. The Fyn protein is synthesized and N-myristoylated on cytosolic polysomes and then rapidly targeted to the plasma membrane, where it is palmitoylated (3). The corresponding sequences surrounding Tyr416 and Tyr527 of Src are conserved in Fyn and thus may be similarly regulated by phosphorylation. Dually acetylated Fyn clusters in caveolae-like membrane microdomains and can interact with a variety of other signaling molecules. Fyn's biological functions are diverse and include signaling via the T cell receptor, regulation of brain function and adhesion mediated signaling (4, 5). Alteration of the levels of Fyn in appropriate target tissues may lead to better treatments for some related diseases.

## Background References

1. Thomas, S.M. and Brugge, J.S. (1997) *Annu Rev Cell Dev Biol* 13, 513-609.
2. Hunter, T. (1987) *Cell* 49, 1-4.
3. Resh, M.D. (1998) *Int J Biochem Cell Biol* 30, 1159-62.
4. Nel, A.E. (2002) *J Allergy Clin Immunol* 109, 758-70.
5. Fukui, I. et al. (2000) *Eur J Immunol* 30, 3507-15.

## 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

**W:** Western Blotting

## Cross-Reactivity Key

**H:** Human **M:** Mouse

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