

## Product datasheet

### Anti-Fyn antibody [FYN-01] ab1881

★★★★★ [4 Abreviews](#) [11 References](#) [5 Images](#)

#### Overview

<b>Product name</b>	Anti-Fyn antibody [FYN-01]
<b>Description</b>	Mouse monoclonal [FYN-01] to Fyn
<b>Host species</b>	Mouse
<b>Specificity</b>	The antibody reacts with p59fyn (Fyn), a non receptor protein tyrosine kinase (59 kDa), which belongs to the Src family of cytoplasmic tyrosine kinases.
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, IP, Flow Cyt, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	Recombinant fragment, corresponding to amino acids 7-176 of Human Fyn.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	<p>pH: 7.40</p> <p>Preservative: 0.097% Sodium azide</p> <p>Constituent: PBS</p>
<b>Purity</b>	Protein A purified
<b>Purification notes</b>	Purified from hybridoma culture supernatant. Purity >95% by SDS-PAGE.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	FYN-01
<b>Isotype</b>	IgG2b

## Applications

### The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab1881 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★★ (1)	Use a concentration of 5 µg/ml.
IP		Use at an assay dependent concentration.
Flow Cyt		Use 1µg for 10 <sup>6</sup> cells. <b>ab170192</b> - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (1)	Use a concentration of 2 µg/ml. Predicted molecular weight: 59 kDa.

## Target

### Function

Tyrosine-protein kinase implicated in the control of cell growth. Plays a role in the regulation of intracellular calcium levels, with isoform 2 showing the greater ability to mobilize cytoplasmic calcium in comparison to isoform 1. Required in brain development and mature brain function with important roles in the regulation of axon growth, axon guidance, and neurite extension. Blocks axon outgrowth and attraction induced by NTN1 by phosphorylating its receptor DDC. Phosphorylates RUNX3.

### Tissue specificity

Isoform 1 is highly expressed in the brain. Isoform 2 is expressed in cells of hemopoietic lineages, especially T lymphocytes.

### Sequence similarities

Belongs to the protein kinase superfamily. Tyr protein kinase family. SRC subfamily.  
Contains 1 protein kinase domain.  
Contains 1 SH2 domain.  
Contains 1 SH3 domain.

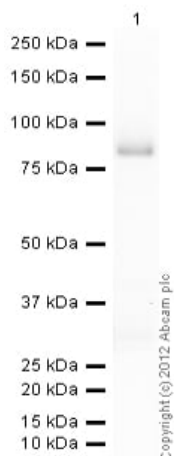
### Cellular localization

Cell membrane. Present and active in lipid rafts. Present in cell body and along the process of mature and developing oligodendrocytes.

### Form

This protein is known to be similar in amino acid sequence to HCK (P08631), LCK (P06239), YES1 (P07947), SRC (P12931), and LYN (P07948). Therefore, cross-reactivity with these homologous proteins may be observed. We would be happy to provide immunogen alignment information upon request.

## Images



Western blot - Anti-Fyn antibody [FYN-01] (ab1881)

Anti-Fyn antibody [FYN-01] (ab1881) at 1 µg/ml + Recombinant human Fyn protein ([ab84696](#)) at 0.01 µg

### Secondary

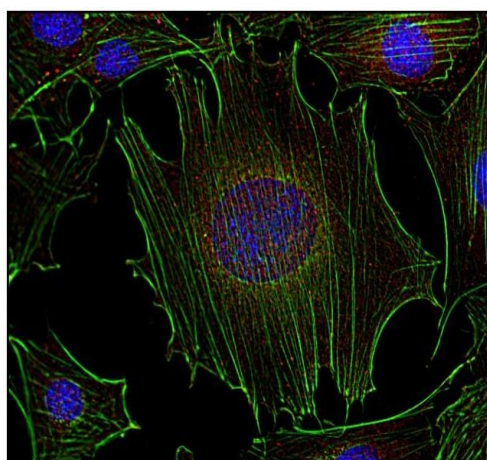
Goat Anti-Mouse IgG H&L (HRP) preadsorbed ([ab97040](#)) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 59 kDa

**Exposure time:** 10 seconds



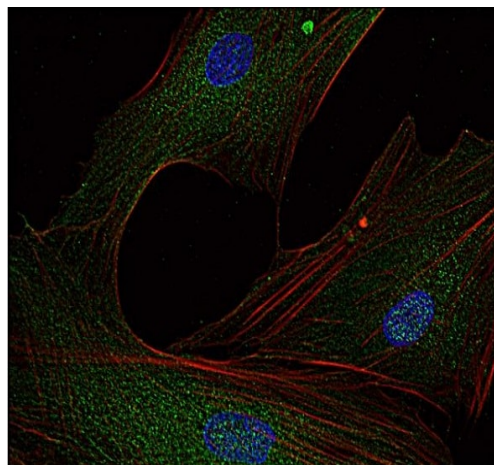
Immunocytochemistry/ Immunofluorescence - Anti-Fyn antibody [FYN-01] (ab1881)

Immunocytochemistry analysis of Fyn in murine transformed fibroblasts using ab1881 (red) at 5 µL. Actin cytoskeleton was decorated by phalloidin (green) and cell nuclei stained with DAPI (blue).

Flow Cytometry - Anti-Fyn antibody [FYN-01] (ab1881)

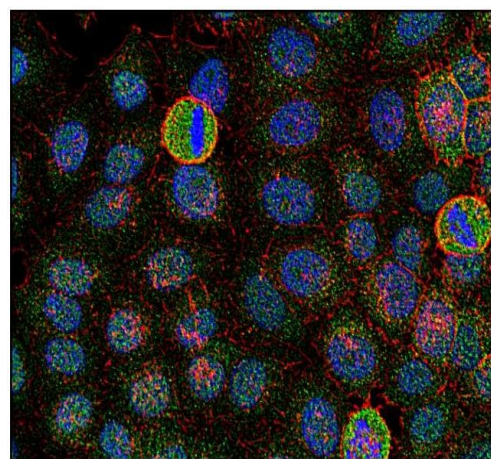
Overlay histogram showing Ramos cells stained with ab1881 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab1881, 1 µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was DyLight<sup>®</sup> 488 goat anti-mouse IgG

(H+L) (**ab96879**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2b [PLPV219] (**ab91366**, 2µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in Ramos cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



Immunocytochemistry/ Immunofluorescence - Anti-Fyn antibody [FYN-01] (ab1881)

Immunofluorescence analysis of human primary fibroblasts labelling Fyn with ab1881 at 5 µL. Actin cytoskeleton was stained with phalloidin (red) and cell nuclei were stained with DAPI (blue).



Immunocytochemistry/ Immunofluorescence - Anti-Fyn antibody [FYN-01] (ab1881)

Immunocytochemistry analysis of Fyn in human HeLa cell line using ab1881 (green) at 5 µL. Actin cytoskeleton was decorated by phalloidin (red) and cell nuclei stained with DAPI (blue).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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