

For Research Use Only

# FYN Monoclonal antibody

Catalog Number: 66606-1-Ig

Featured Product

12 Publications



## Basic Information

<b>Catalog Number:</b> 66606-1-Ig	<b>GenBank Accession Number:</b> BC032496	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul, Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 2534	<b>CloneNo.:</b> 1G4B1
<b>Source:</b> Mouse	<b>Full Name:</b> FYN oncogene related to SRC, FGR, YES	<b>Recommended Dilutions:</b> WB 1:5000-1:30000 IHC 1:2000-1:5000 IF 1:400-1:1600
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 537aa,61 kDa; 482aa,55 kDa	
<b>Immunogen Catalog Number:</b> AG11127	<b>Observed MW:</b> 60 kDa	

## Applications

**Tested Applications:**  
FC, IF, IHC, WB, ELISA

**Cited Applications:**  
IHC, WB

**Species Specificity:**  
Human, Mouse, Rat

**Cited Species:**  
human, rat, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** HEK-293 cells, Jurkat cells, Ramos cells, HeLa cells, MCF-7 cells, HSC-T6 cells, NIH/3T3 cells

**IHC:** human tonsillitis tissue, human breast cancer tissue

**IF:** Neuro-2a cells,

## Background Information

FYN, also named as p59-Fyn and SLK, belongs to the protein kinase superfamily, Tyr protein kinase family and SRC subfamily. FYN is implicated in the control of cell growth. It 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. FYN is required in brain development and mature brain function with important roles in the regulation of axon growth, axon guidance, and neurite extension. FYN blocks axon outgrowth and attraction induced by NTN1 by phosphorylating its receptor DDC.

## Notable Publications

Author	Pubmed ID	Journal	Application
Tianxiang Li	36272670	Free Radic Biol Med	WB
Maya Barad	33242826	EBioMedicine	IHC
Hongyu Yuan	29555370	Exp Cell Res	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

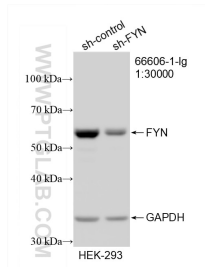
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

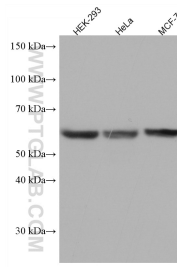
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

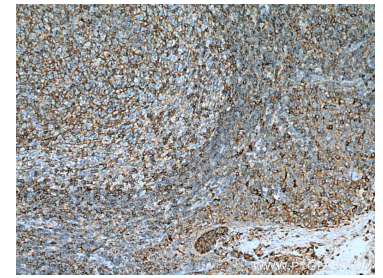
## Selected Validation Data



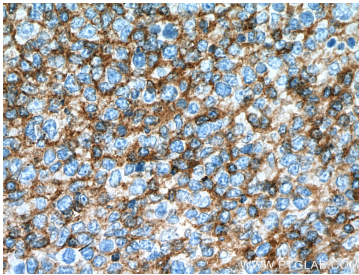
WB result of FYN antibody (66606-1-Ig; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-FYN transfected HEK-293 cells.



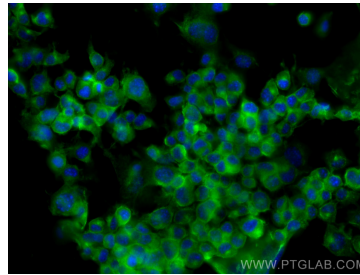
Various lysates were subjected to SDS PAGE followed by western blot with 66606-1-Ig (FYN antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



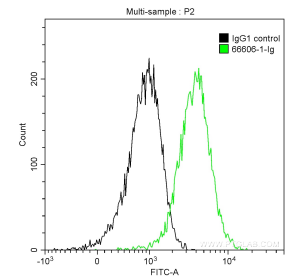
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66606-1-Ig (FYN antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66606-1-Ig (FYN antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed Neuro-2a cells using FYN antibody (66606-1-Ig, Clone: 1G4B1) at dilution of 1:800 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.2 ug Anti-Human FYN (66606-1-Ig, Clone:1G4B1) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), and 0.2 ug Mouse IgG1 Isotype Control (66360-1-Ig, Clone: T1F8D3F10) (black). Cells were fixed with 4% PFA and permeabilized with 0.1% TritonX-100.