

# Anti-Fyn Antibody

## ER1706-74



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IF-Cell, FC
<b>Molecular Wt:</b>	Predicted band size: 61 kDa

**Description:** Fyn is a protein, present in the signaling pathway of integrins, which activates ras. Fyn is a tyrosine-specific phospho-transferase that is a member of the Src family of non-receptor tyrosine protein kinases. (This family also includes Abl, Src, focal adhesion kinase and Janus kinase.) Fyn is located downstream of several cell surface receptors, commonly associated with neuronal development and T-cell signaling. When fyn is activated it causes downstream activation of molecular signals that drive processes crucial to growth and motility of cells. Fyn is primarily localized to the cytoplasmic leaflet of the plasma membrane, where it phosphorylates tyrosine residues on key targets involved in a variety of different signaling pathways. Tyrosine phosphorylation of target proteins by Fyn serves to either regulate target protein activity, and/or to generate a binding site on the target protein that recruits other signaling molecules. Fyn also is a tumor suppressor. When this normal biology is compromised, the altered Fyn becomes involved in the neoplastic transformation of normal cells to cancerous ones following the pathway from pre-invasive, to invasive, and ultimately metastasis. Fyn also appears to play an important role in fertilization including in the rapid Inositol trisphosphate-mediated calcium signaling which occurs when oocyte and sperm interact. Fyn expression levels are much higher in oocytes than even neurons and T-cells and it has been suggested to be an 'oocyte-specific kinase'. Several studies point to Fyn as being responsible for dramatic biochemical changes in the oocyte cortex during oocyte maturation. Fyn may also play an important role in proper shaping of sperm head and acrosome within the testis and possibly has an additional role in the sperm acrosome reaction.

**Immunogen:** Recombinant protein within N-terminal human Fyn.

**Positive control:** HUVEC, N2A, SH-SY5Y.

**Subcellular location:** Cytoplasm. Membrane. Nucleus.

**Database links:** SwissProt: P06241 Human | P39688 Mouse | Q62844 Rat

**Recommended Dilutions:**

<b>WB</b>	1:500
<b>IF-Cell</b>	1:100-1:500
<b>FC</b>	1:50-1:100

**Storage Buffer:** 1\*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

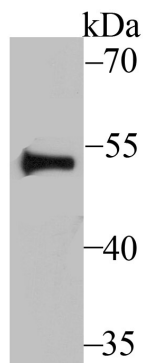
Orders:0086-571-88062880

Technical:0086-571-89986345

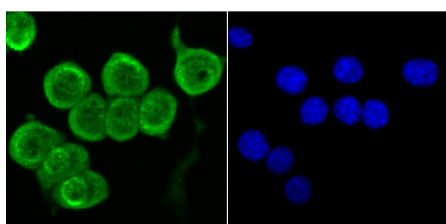
Service mail:support@huabio.cn

华安生物  
HUABIO  
www.huabio.cn

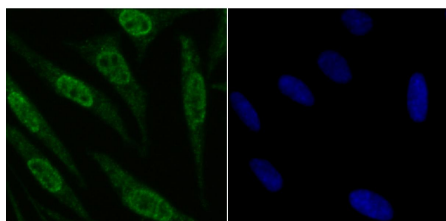
## Images



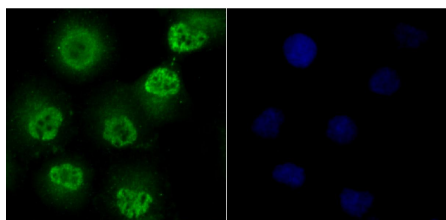
**Fig1:** Western blot analysis of Fyn on HUVEC cell using anti-Fyn antibody at 1/200 dilution.



**Fig2:** ICC staining Fyn in N2A cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



**Fig3:** ICC staining Fyn in SH-SY5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



**Fig4:** ICC staining Fyn in HUVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物  
HUABIO  
www.huabio.cn

---

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

---

### Background References

1. Matrone C et al. Fyn Tyrosine Kinase as Harmonizing Factor in Neuronal Functions and Dysfunctions. *Int J Mol Sci.* 2020 Jun
2. Uddin MJ et al. Fyn Kinase: A Potential Therapeutic Target in Acute Kidney Injury. *Biomol Ther (Seoul).* 2020 May

**Hangzhou Huaan Biotechnology Co., Ltd.**

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

 华安生物  
HUABIO  
www.huabio.cn