

# Anti-Fyn Antibody [JE42-22]

HA721577



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB
<b>Molecular Wt:</b>	Predicted band size: 61 kDa
<b>Clone number:</b>	JE42-22

**Description:** Proto-oncogene tyrosine-protein kinase Fyn (p59-FYN, Slk, Syn, MGC45350, Gene ID 2534) is an enzyme that in humans is encoded by the FYN gene. Fyn is a 59-kDa member of the Src family of kinases typically associated with T-cell and neuronal signaling in development and normal cell physiology. Disruptions in these signaling pathways often have implications in the formation of a variety of cancers. By definition as a proto-oncogene, Fyn codes for proteins that help regulate cell growth. Changes in its DNA sequence transform it into an oncogene that leads to the formation of a different protein with implications for normal cell regulation. Fyn is a member of the protein-tyrosine kinase oncogene family. It encodes a membrane-associated tyrosine kinase that has been implicated in the control of cell growth. The protein associates with the p85 subunit of phosphatidylinositol 3-kinase and interacts with the fyn-binding protein. Alternatively spliced transcript variants encoding distinct isoforms exist.

**Immunogen:** Synthetic peptide within Human Fyn aa 25-74 / 537.

**Positive control:** Rat testis tissue lysate, Mouse testis tissue lysate, Human brain tissue lysate, Mouse lung tissue lysate, Mouse brain tissue lysate, Rat brain tissue lysate, 293T cell lysate, NIH/3T3 cell lysate.

**Subcellular location:** Cytoplasm, Nucleus, Cell membrane, Perikaryon.

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

**Recommended Dilutions:**  
**WB** 1:1,000

**Storage Buffer:** 1\*TBS (pH7.4), 0.05% BSA, 40% 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:** Protein A affinity purified.

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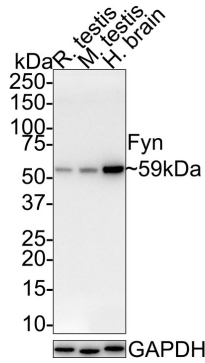
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## Images



**Fig1:** Western blot analysis of Fyn on different lysates with Rabbit anti-Fyn antibody (HA721577) at 1/1,000 dilution.

Lane 1: Rat testis tissue lysate

Lane 2: Mouse testis tissue lysate

Lane 3: Human brain tissue lysate

Lysates/proteins at 40 µg/Lane.

Predicted band size: 61 kDa

Observed band size: 59 kDa

Exposure time: 3 minutes;

4-20% SDS-PAGE gel.

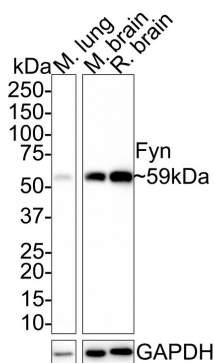
Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody (HA721577) at 1/1,000 dilution was used in 5% NFDN/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.

**Fig2:** Western blot analysis of Fyn on different lysates with Rabbit anti-Fyn antibody (HA721577) at 1/1,000 dilution.

Lane 1: Mouse lung tissue lysate

Lane 2: Mouse brain tissue lysate

Lane 3: Rat brain tissue lysate



Lysates/proteins at 40 µg/Lane.

Predicted band size: 61 kDa

Observed band size: 59 kDa

Exposure time: 3 minutes;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody (HA721577) at 1/1,000 dilution was used in 5% NFDN/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.

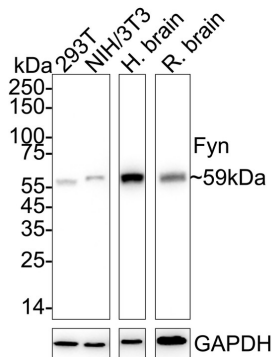
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**Fig3:** Western blot analysis of Fyn on different lysates with Rabbit anti-Fyn antibody (HA721577) at 1/1,000 dilution.

Lane 1: 293T cell lysate (20 µg/Lane)  
 Lane 2: NIH/3T3 cell lysate (20 µg/Lane)  
 Lane 3: Human brain tissue lysate (40 µg/Lane)  
 Lane 4: Rat brain tissue lysate (40 µg/Lane)

Predicted band size: 61 kDa  
 Observed band size: 59 kDa

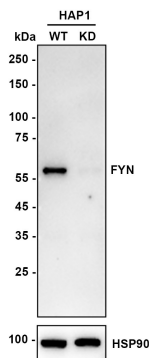
Exposure time: Lane 1-2: 3 minutes; Lane 3-4: 14 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA721577) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

**Fig4:** Western blot analysis of Fyn on different lysates with Rabbit anti-Fyn antibody (HA721577) at 1/1,000 dilution.

Lane 1: HAP1-parental cell lysate  
 Lane 2: HAP1-Fyn KD cell lysate



Lysates/proteins at 10 µg/Lane.

Predicted band size: 61 kDa  
 Observed band size: 59 kDa

Exposure time: 180 seconds; ECL: K1802;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA721577) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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

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### Background References

1. Du F et al. Fyn Signaling in Ischemia-Reperfusion Injury: Potential and Therapeutic Implications. *Mediators Inflamm.* 2022 Sep
2. Demuro S et al. GSK-3 $\beta$ , FYN, and DYRK1A: Master Regulators in Neurodegenerative Pathways. *Int J Mol Sci.* 2021 Aug

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