

# Anti-FYN Antibody [D2-A10]

## EM1709-88



<b>Product Type:</b>	Mouse monoclonal IgG1, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB, IF-Cell, IHC-P, FC
<b>Molecular Wt:</b>	61 kDa
<b>Clone number:</b>	D2-A10

**Description:** By virtue of common structural motifs, the Src family is composed of nine members in vertebrates, including Src, Yes, Fgr, Frk, Fyn, Lyn, Hck, Lck and Blk. Src-family kinases transduce signals that are involved in the control of a variety of cellular processes, including proliferation, differentiation, motility, and adhesion. Src-family kinases contain an amino terminal cell membrane anchor followed by an SH3 domain and an SH2 domain involved in modular association and activation, respectively. Different subcellular localizations of Src-family kinases may be important for the regulation of specific cellular processes such as mitogenesis, cytoskeletal organization, and membrane trafficking. Fyn and Lck kinases play a key role in T-cell antigen receptor (TCR) signaling. The human Fyn gene maps to chromosome 6q21 and encodes a 537 amino acid protein.

**Immunogen:** Recombinant protein

**Positive control:** Human FYN recombinant protein, U251, breast cancer tissue, brain tissue, Hela.

**Subcellular location:** Cell membrane.

**Database links:** SwissProt: P06241 Human

### Recommended Dilutions:

<b>WB</b>	1:500-1:1,000
<b>IF-cell</b>	1:100-1:500
<b>IHC-P</b>	1:50-1:200
<b>FC</b>	1:100-1:200

**Storage Buffer:** Purified antibody in PBS with 0.05% sodium azide.

**Storage Instruction:** 4°C; -20°C for long term storage.

**Purity:** Protein A affinity purified.

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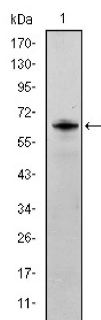
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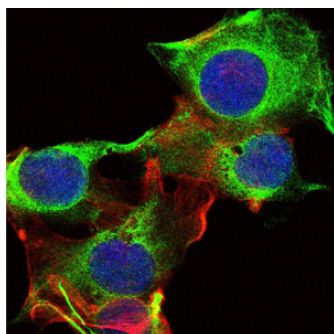
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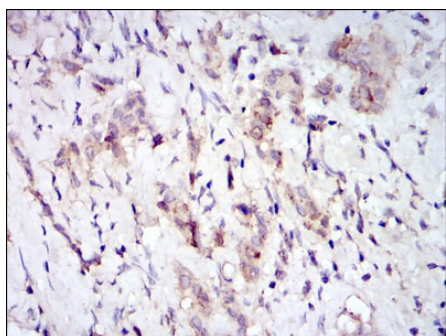
## Images



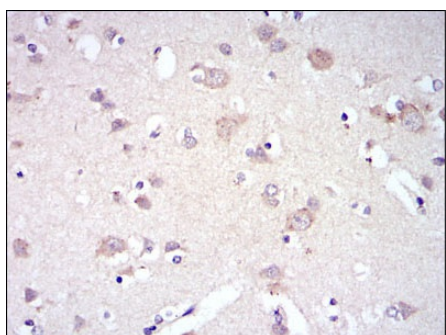
**Fig1:** Western blot analysis of FYN on human FYN recombinant protein using anti-FYN antibody at 1/1,000 dilution.



**Fig2:** ICC staining FYN (green) and actin filaments (red) in U251 cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



**Fig3:** Immunohistochemical analysis of paraffin-embedded human breast cancer tissue using anti-FYN antibody. Counter stained with hematoxylin.



**Fig4:** Immunohistochemical analysis of paraffin-embedded human brain tissue using anti-FYN antibody. Counter stained with hematoxylin.

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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. Chavez-Solano M et al. Fyn kinase genetic ablation causes structural abnormalities in mature retina and defective Müller cell function. *Mol Cell Neurosci* 72: 91-100 (2016).
2. Hao L et al. Neuroprotective Effects of Inhibiting Fyn S-Nitrosylation on Cerebral Ischemia/Reperfusion-Induced Damage to CA1 Hippocampal Neurons. *Int J Mol Sci* 17 (2016).

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