

Fyn Monoclonal Antibody (FYN-01)

Catalog NumberMA1-19331

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse
Host/Isotope	Mouse / IgG2b	Published species	Hamster, Human, Mouse, Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	Dilution *	
Clone	FYN-01	Immunohistochemistry (Paraffin) (IHC (P))	5 µg/mL
Immunogen	Recombinant fragment of human Fyn (aa 7-176)	Immunoprecipitation (IP)	Assay-dependent
Conjugate	Unconjugated	Western Blot (WB)	2 µg/mL
Form	Liquid	Immunocytochemistry (ICC/IF)	Assay-dependent
Concentration	1 mg/mL	Published Applications	
Purification	Protein A	Western Blot (WB)	See 2 publications below
Storage buffer	PBS, pH 7.4	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Contains	15mM sodium azide		
Storage Conditions	4° C, do not freeze		

Product specific information

Immunoprecipitation: Preparation of cell lysate: 30 min on ice (orbital incubator) in lysing buffer, lysing buffer with N-dodecyl beta-D-maltoside (20 mM Tris/Cl, 100 mM NaCl pH 8,2, 1% laurylmaltosid (w/v), 50 mM NaF). The antibody FYN-01 apparently gives very specific signal (by 59 kDa), and nicely immunoprecipitates Fyn from cell lysates.

Background/Target Information

FYN is a SRC-related kinase expressed in brain, skeletal muscle and adipose tissues. Fyn functions in a large number of pathways and has been shown to play a role in memory. 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.

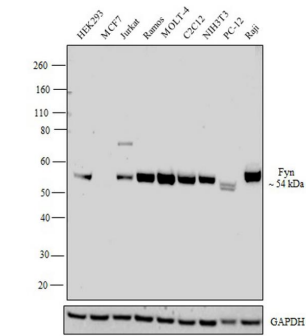
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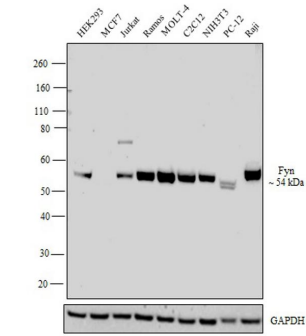
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Product Images For Fyn Monoclonal Antibody (FYN-01)



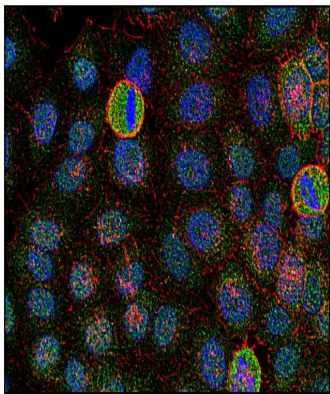
Fyn Antibody (MA1-19331)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. A higher level expression of Fyn was observed in Ramos, MOLT-4 and Raji compared to HEK293, MCF-7 and PC-12 using Fyn Monoclonal Antibody (FYN-01) (Product # MA1-19331) in western blot. {RE}



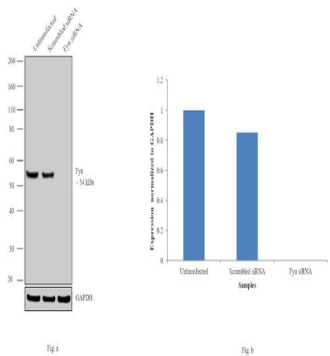
Fyn Antibody (MA1-19331) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of HEK293 (Lane 1), MCF7 (Lane 2), Jurkat (Lane 3), Ramos (Lane 4), MOLT-4 (Lane 5), C2C12 (Lane 6), NIH3T3 (Lane 7), PC-12 (Lane 8) and Raji (Lane 9). The blot was probed with Fyn Monoclonal Antibody (FYN-01) (Product # MA1-19331, 2 µg/mL) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/mL, 1:4000 dilution). A band at 54 kDa corresponding to Fyn was observed across all the cell lines tested except MCF-7.



Fyn Antibody (MA1-19331) in ICC/IF

Immunocytochemistry analysis of Fyn in human HeLa cell line using anti-Fyn (FYN-01; green) Monoclonal antibody (Product # MA1-19331). Actin cytoskeleton was decorated by phalloidin (red) and cell nuclei stained with DAPI (blue).



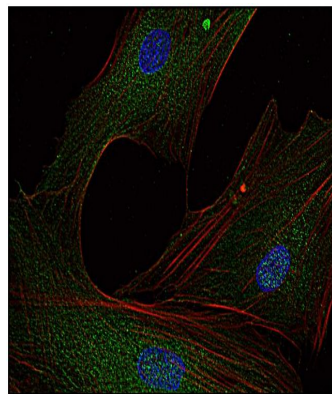
Fyn Antibody (MA1-19331)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HEK-293 cells were transfected with Fyn siRNA and reduction of signal was observed in Western Blot using Fyn Monoclonal Antibody (FYN01) (Product # MA1-19331). {KD}

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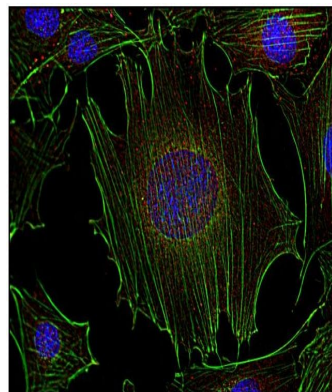
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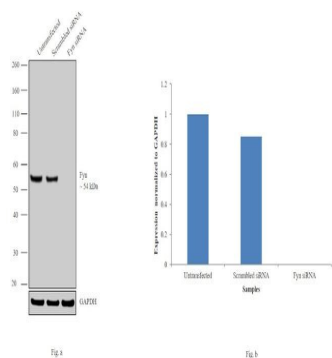
Fyn Antibody (MA1-19331) in ICC/IF

Immunocytochemistry analysis of Fyn in human primary fibroblasts using anti-Fyn (FYN-01; green) Monoclonal antibody (Product # MA1-19331) using a dilution of 5 µg/mL. Actin cytoskeleton was decorated by phalloidin (red) and cell nuclei stained with DAPI (blue).



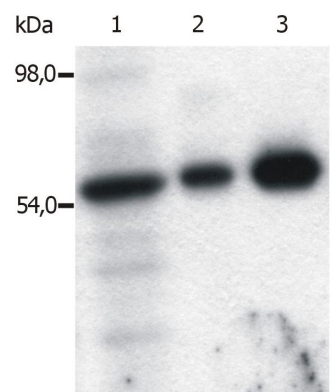
Fyn Antibody (MA1-19331) in ICC/IF

Immunocytochemistry analysis of Fyn in murine transformed fibroblasts using anti-Fyn (FYN-01; red) Monoclonal antibody (Product # MA1-19331). Actin cytoskeleton was decorated by phalloidin (green) and cell nuclei stained with DAPI (blue).



Fyn Antibody (MA1-19331) in WB

Knockdown of Fyn was achieved by transfecting HEK293 cells with Fyn specific siRNAs (Silencer® select Product # s5434). Western blot analysis (Fig. a) was performed using whole cell extracts from the Fyn knockdown cells (lane 3), non-specific scrambled siRNA transfected cells (lane 2) and untransfected cells (lane 1). The blots were probed with Fyn Monoclonal Antibody (FYN01) (Product # MA1-19331, 2 µg/ml) and Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 1:4000 dilution). Densitometric analysis of this western blot is shown in histogram (Fig. b). Decrease in signal upon siRNA mediated knock down confirms that antibody is specific to Fyn.



Fyn Antibody (MA1-19331) in IP

Immunoprecipitation of Fyn from the lysate of T cells isolated from fresh buffy coats. Western blot was immunostained with anti-Fyn (FYN-01) Monoclonal antibody (Product # MA1-19331). Lane 1: original lysate of T cells; Lane 2-3: Immunoprecipitated material eluted from affinity sorbent (FYN-01 coupled to Sepharose beads). Lanes differ in amount of T cell lysate loaded on the immunosorbent.

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PubMed References For Fyn Monoclonal Antibody (FYN-01)

2 Western Blot References

Species / Dilution	Summary
Human / Not Cited	<p>MA1-19331 was used in Western Blot to find that the fatty acid transporter CD36 was upregulated in the S508A mutant, coexpressed in BCs with CEACAM1, co-IPed with CEACAM1 and Src, and when downregulated via RNAi, an increase in lipid droplet content was observed.</p> <p>The Journal of biological chemistry (2021; 297:) "Human CEACAM1-LF regulates lipid storage in HepG2 cells via fatty acid transporter CD36." Author(s):Chean J,Chen CJ,Gugiu G,Wong P,Cha S,Li H,Nguyen T,Bhatticharya S,Shively JE PubMed Article URL:http://dx.doi.org/10.1016/j.jbc.2021.101311</p>
Mouse / 1:1000	<p>MA1-19331 was used in Western Blotting to demonstrate the role of Fyn and tau in seizures and their impact on the mediators of early epileptogenesis in PTZ model.</p> <p>Frontiers in cellular neuroscience (2021; 14:) "Fyn-tau Ablation Modifies PTZ-Induced Seizures and Post-seizure Hallmarks of Early Epileptogenesis." Author(s):Putra M,Puttachary S,Liu G,Lee G,Thippeswamy T PubMed Article URL:http://dx.doi.org/10.3389/fncel.2020.592374</p>

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