

Fibronectin Monoclonal Antibody (3F12)

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Insect
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	3F12
Conjugate	Unconjugated
Immunogen	Human plasma fibronectin
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4, with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C
RRID	AB_10985252

Applications	Tested Dilution	Publications
Western Blot (WB)	1:100-1:500	-
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	1:100-1:200	1 Publication
ELISA (ELISA)	1 µg/mL	-
Immunoprecipitation (IP)	Assay-dependent	-
Radioimmune Assays (RIA)	Assay-dependent	-

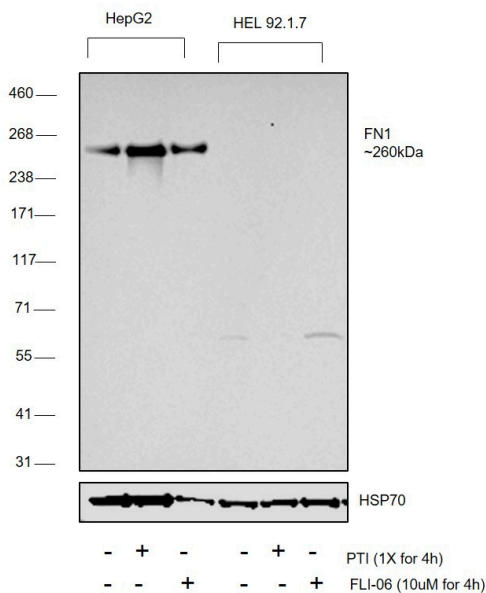
Product Specific Information

MA5-14737 has been successfully used in WB, ELISA, immunofluorescence, immunoprecipitation, and radioimmune assay applications, and reacts with human samples.

MA5-14737 detects Fibronectin which has a predicted molecular weight of approximately 259 kDa.

Product MA514737 is a smaller package size of MIF2601 (formerly sold as a Seradyn product).

Product Images For Fibronectin Monoclonal Antibody (3F12)

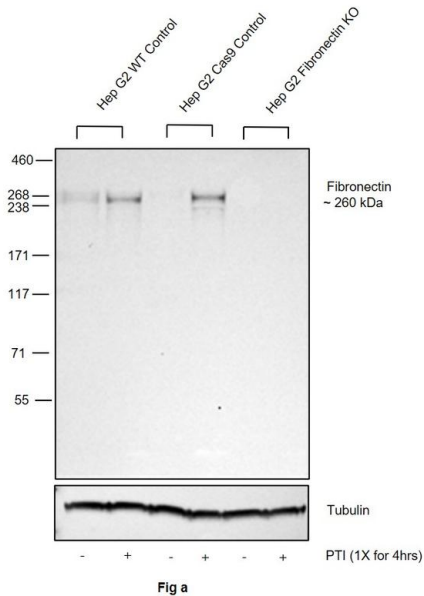


Fibronectin Antibody (MA5-14737)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines owing to their inherent genetic constitution. Relative expression of Fibronectin was observed in Hep G2 upon treatment with protein transport inhibitors 1X PTI for 4h and 10 μ M FLI-06 for 4h versus in HEL 92.1.7 using the same treatments, using the same treatments using Anti-Fibronectin Monoclonal Antibody (3F12) (Product # MA5-14737) in Western Blot. {RE}

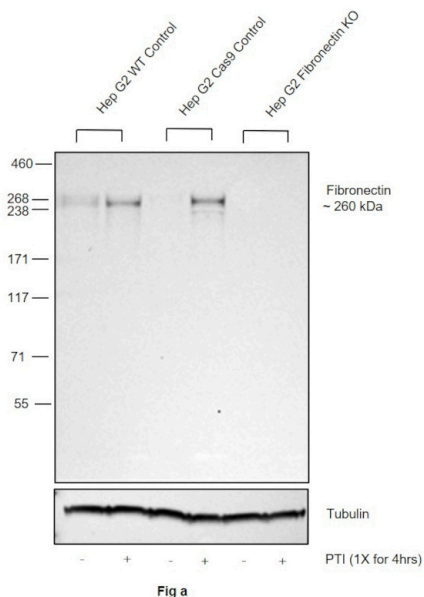
Fibronectin Antibody (MA5-14737) in WB

Knockout of Fibronectin was achieved by CRISPR-Cas9 genome editing using LentiArray™ Lentiviral sgRNA (Product # A32042, Assay ID CRISPR616644_LV) and LentiArray Cas9 Lentivirus (Product # A32064). Western blot analysis of Fibronectin was performed by loading 30 μ g of Hep G2 Wild Type (Lane 1), Hep G2 Wild Type treated with 1X PTI for 4hrs (Lane 2), Hep G2 Cas9 (Lane 3), Hep G2 Cas9 treated with 1X PTI for 4hrs (Lane 4), Hep G2 Fibronectin KO (Lane 5) and Hep G2 Fibronectin KO treated with 1X PTI for 4hrs (Lane 6) whole cell extracts. The samples were electrophoresed using NuPAGE™ 3-8% Tris-Acetate Protein Gel (Product # EA0378BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with Anti-Fibronectin Monoclonal Antibody (3F12) (Product # MA5-14737, 1:500 dilution) and Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:5,000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005). Loss of signal upon CRISPR mediated knockout (KO) using the LentiArray™ CRISPR product line confirms that antibody is specific to Fibronectin.



Fibronectin Antibody (MA5-14737)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein inFibronectin KO cell line compared to control cell line using Anti-Fibronectin Monoclonal Antibody (3F12) (Product # MA5-14737). {KO}



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2 References

Immunohistochemistry (1)

<p>PloS one</p> <p>Opposing effects of in vitro differentiated macrophages sub-type on epithelial wound healing.</p> <p>"Published figure using Fibronectin monoclonal antibody (Product # MA5-14737) in Immunofluorescence"</p> <p>Authors: Gindele JA,Mang S,Pairet N,Christ I,Gantner F,Schymeinsky J,Lamb DJ</p>	<p>Year</p> <p>2017</p>
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Immunocytochemistry (1)

<p>Materials today. Bio</p> <p>Liquid-type plasma-controlled in situ crosslinking of silk-alginate injectable gel displayed better bioactivities and mechanical properties.</p> <p>"MA5-14737 was used in Immunocytochemistry-immunofluorescence to conclude that LTP-treated S-A hydrogel can be used to enhance wound healing after vocal fold (VF) injury."</p> <p>Authors: Kim S, Lee HY, Lee HR, Jang JY, Yun JH, Shin YS, Kim CH</p>	<p>Year</p> <p>2022</p> <p>Species</p> <p>Insect</p> <p>Dilution</p> <p>1:100</p>
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