

Fibronectin Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant fragment corresponding to a region within amino acids 396 and 689 of Human Fibronectin
Form	Liquid
Concentration	0.48 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 20% glycerol, 1% BSA
Contains	0.025% ProClin 300
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2547054

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:3,000	5 Publications
Immunohistochemistry (IHC)	-	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000	-
Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent	-
Immunocytochemistry (ICC/IF)	1:100-1:1,000	1 Publication
Flow Cytometry (Flow)	-	1 Publication
ELISA (ELISA)	1:1000-1:10000	-
Immunoprecipitation (IP)	1:100-1:500	-

Product Specific Information

Recommended positive controls: HepG2, HepG2(10 mM Nicotinamide and 0.4 mM Trichostatin A treatment for 48 hr), HeLa mock and shFN1, mouse plasma.

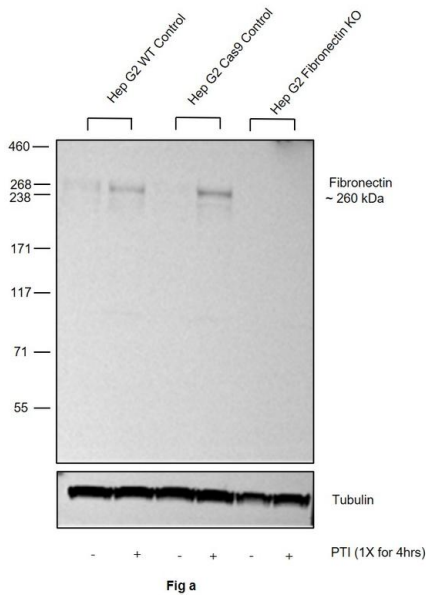
Predicted reactivity: Mouse (92%), Rat (92%), Chicken (88%), Bovine (92%).

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For Fibronectin Polyclonal Antibody

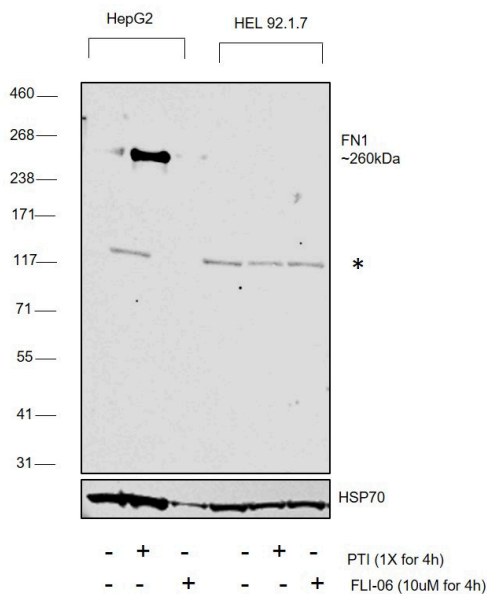
Fibronectin Antibody (PA5-29578) in WB

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 µg 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 Polyclonal Antibody (Product # PA5-29578, 0.1 µg/mL dilution) and Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 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.



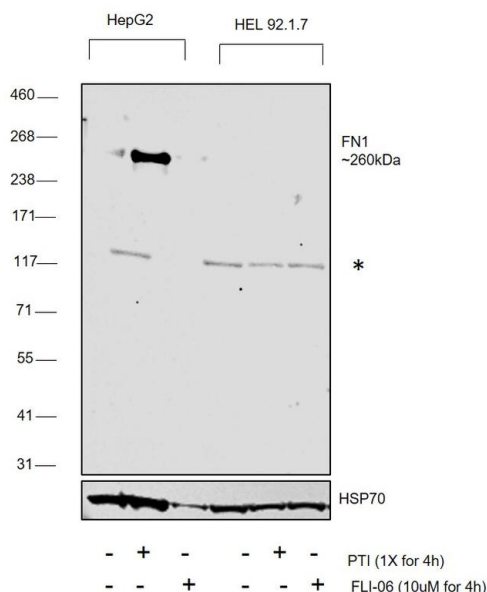
Fibronectin Antibody (PA5-29578)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines and tissues owing to their inherent genetic constitution. Relative expression of Fibronectin was observed in Hep G2 treated with PTI and FLI-06 when compared to HEL 92.1.7 using Anti-Fibronectin Polyclonal Antibody (Product # PA5-29578) in Western Blot. {RE}



Fibronectin Antibody (PA5-29578) in WB

Western blot was performed using Anti-Fibronectin Polyclonal Antibody (Product # PA5-29578) and a ~260 kDa band corresponding to Fibronectin was observed across cell lines tested. Whole cell extracts (30 µg lysate) of Hep G2 (Lane 1), Hep G2 treated with 1X PTI for 4h (Lane 2), Hep G2 treated with 10 µM FLI-06 for 4h (Lane 3), HEL 92.1.7 (Lane 4), HEL 92.1.7 treated with 1X PTI for 4h (Lane 5), HEL 92.1.7 treated with 10 µM FLI-06 for 4h (Lane 6) 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 the primary antibody (0.14 µg/mL) and detected by chemiluminescence with Goat anti-Rabbit IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4,000) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005). Another isoform of Fibronectin (*) was seen in the cell lines around 120 kDa. The antibody showed enhanced signal in positive cell line Hep G2 upon treatment with secretion blockers as compared to the negative cell line HEL 92.1.7 treated with the same blockers.



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10 References

Western Blot (5)

International journal of molecular sciences	Year 2023
Evaluation of Epithelial-Mesenchymal Transition Markers in Autoimmune Thyroid Diseases.	Species Human
"Published figure using Fibronectin polyclonal antibody (Product # PA5-29578) in Western Blot"	
Authors: Sacristán-Gómez P,Serrano-Somavilla A,Castro-Espadas L,Sánchez de la Blanca Carrero N,Sampedro-Núñez M,Muñoz-De-Nova JL,Molina-Jiménez F,Rosell A,Marazuela M,Martínez-Hernández R	
Cancers	Year 2022
Paclitaxel Induces Epidermal Molecular Changes and Produces Subclinical Alterations in the Skin of Gynecological Cancer Patients.	Species Human
"Published figure using Fibronectin polyclonal antibody (Product # PA5-29578) in Western Blot"	
Authors: Montero P,Pérez-Leal M,Pérez-Fidalgo JA,Sanz C,Estornut C,Roger I,Milara J,Cervantes A,Cortijo J	

View more WB references on thermofisher.com

Immunohistochemistry (3)

International journal of molecular sciences	Year 2023
Evaluation of Epithelial-Mesenchymal Transition Markers in Autoimmune Thyroid Diseases.	Species Human
"Published figure using Fibronectin polyclonal antibody (Product # PA5-29578) in Western Blot"	
Authors: Sacristán-Gómez P,Serrano-Somavilla A,Castro-Espadas L,Sánchez de la Blanca Carrero N,Sampedro-Núñez M,Muñoz-De-Nova JL,Molina-Jiménez F,Rosell A,Marazuela M,Martínez-Hernández R	
The Journal of biological chemistry	Year 2019
Diet-induced hepatic steatosis abrogates cell-surface LDLR by inducing <i>de novo</i> PCSK9 expression in mice.	Species Human
"PA5-29578 was used in Immunohistochemistry to examine the effect of hepatic steatosis on LDLR expression and circulating LDL cholesterol levels."	Dilution 1:200
Authors: Lebeau PF,Byun JH,Platko K,MacDonald ME,Poon SV,Faiyaz M,Seidah NG,Austin RC	

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More applications with references on thermofisher.com

- ICC/IF (1)
- Flow (1)

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