

Annexin A1 Recombinant Superclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Superclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Protein corresponding to Human ANXA1 (aa 33-346)
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2633117

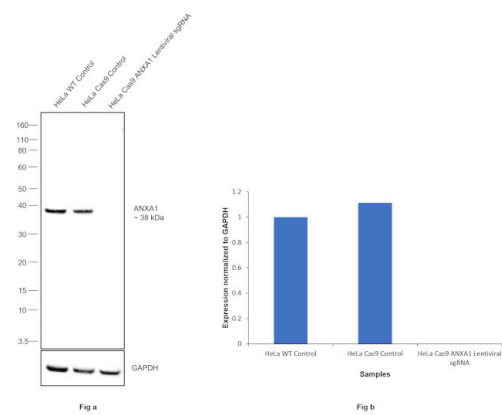
Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	-

Product Specific Information

This antibody is predicted to react with Monkey, Sheep and Pig

Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds - the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - all delivered with the consistency only found in a recombinant antibody. While functionally the same as a polyclonal antibody - recognizing multiple epitope sites on the target and producing higher detection sensitivity for low abundance targets - a recombinant rabbit polyclonal antibody has a known mixture of light and heavy chains. The exact population can be produced in every lot, circumventing the biological variability typically associated with polyclonal antibody production.

Product Images For Annexin A1 Recombinant Superclonal Antibody

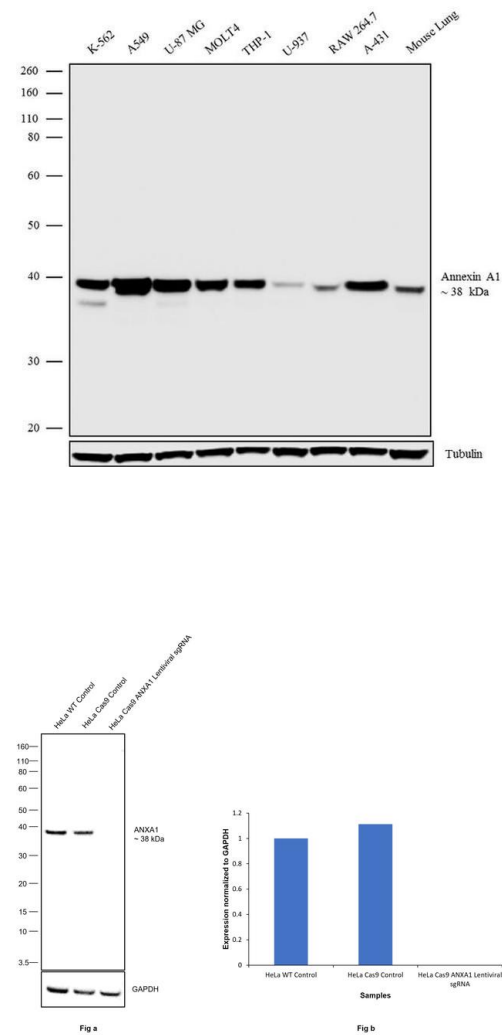


Annexin A1 Antibody (711089)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in HeLa Cas9 cell line transduced with ANXA1 Lentiviral sgRNA compared to control cell line using Anti-Annexin A1 Recombinant Polyclonal Antibody (Product # 711089). {KO}

Annexin A1 Antibody (711089) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of K-562 (Lane 1), A549 (Lane 2), U-87 MG (Lane 3), MOLT4 (Lane 4), THP-1 (Lane 5), U-937 (Lane 6), RAW 264.7 (Lane 7), A-431 (Lane 8) and Mouse Lung (Lane 9). The blots were probed with Anti-Annexin A1 Recombinant Rabbit Polyclonal Antibody (Product # 711089, 1-2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 38 kDa band corresponding to Annexin A1 was observed across cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12% Bis-Tris gel (Product # NP0321BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5% skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).



Annexin A1 Antibody (711089) in WB

CRISPR-Cas9 mediated genome editing of ANXA1 (as confirmed by next generation sequencing) was achieved by using LentiArray™ Lentiviral sgRNA (Product # A32042, AssayID CRISPR799825_LV) and LentiArray Cas9 Lentivirus (Product # A32064). Fig (a) Western blot analysis of ANXA1 was performed by loading 30 µg of HeLa wild type (Lane 1), HeLa Cas9 (Lane 2) and HeLa Cas9 cells transduced with ANXA1 Lentiviral sgRNA (Lane 3) membrane enriched extracts. The samples were electrophoresed using NuPAGE™ Novex™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). 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-Annexin A1 Recombinant Polyclonal Antibody (Product # 711089) using 1:500 dilution and Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036 1:5000 dilution). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005). A loss of signal in sgRNA transduced cells using the LentiArray™ CRISPR product line confirms that antibody is specific to ANXA1 (Fig (b)).

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