

Product Datasheet

Annexin A2 Antibody (1G7) - Azide and BSA Free H00000302-M02

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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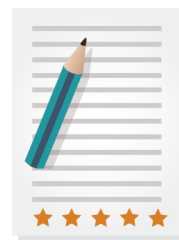
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H00000302-M02

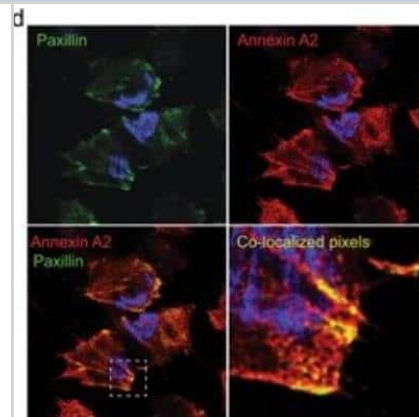
Annexin A2 Antibody (1G7) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1G7
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	302
Gene Symbol	ANXA2
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 28652618).
Specificity/Sensitivity	ANXA2 - annexin A2
Immunogen	ANXA2 (AAH66955, 19 a.a. ~ 357 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MSTVHEILCKLSLEGDHSTPPSAYGSVKAYTNFDAERDALNIETAIKTKGVDEVT IVNILTNRSNQRQDIAFAYQRRTKKELASALKSALSGHLETVILGLLKTPAQYD ASELKASMKGLGTDEDSLIEIICSRTNQELQEINRVYKEMYKTDLEKDIISDTSGD FRKLMVALAKGRRRAEDGSVIDYELIDQDARDLYDAGVKKRGTDVDPKWISVMTE RSVPHLQKVFDYKSYSPYDMLSEIRKEVKGDLEN AFLNLVQCIQNKPLYFADR LYDSMKGKGTRDKVLIRIMVSRSEVDMLKIRSEFKRKYGKSLYYYYIQQDTKGDY QKALLYLCGGDD
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500, Flow Cytometry, ELISA, Immunocytochemistry/ Immunofluorescence 1:10-1:2000, Immunoprecipitation
Application Notes	Antibody reactivity against cell lysate and recombinant protein for WB. It has also been used for IF and ELISA.



Images

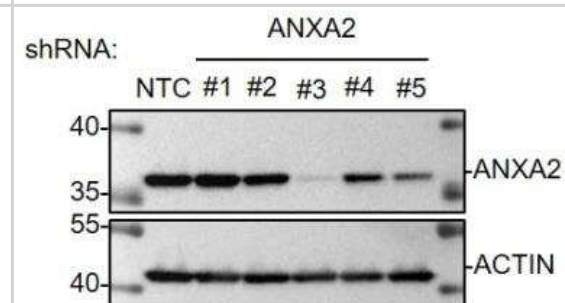
Immunocytochemistry/Immunofluorescence: Annexin A2 Antibody (1G7) [H00000302-M02] - Localization of annexin A2 at the focal adhesions: KS1767 cells co-stained for paxillin (FITC-conjugated secondary antibody, green) and annexin A2 (Alexa 647-conjugated secondary antibody, red). An enlarged inset (white dotted line) is included for prompt visualization. Nuclei are visualized with DAPI (blue); scale bar, 10um. Image collected and cropped by CiteAb from the following publication ([nature.com/articles/s41598-017-03470-w](https://www.nature.com/articles/s41598-017-03470-w)), licensed under a CC-BY license.



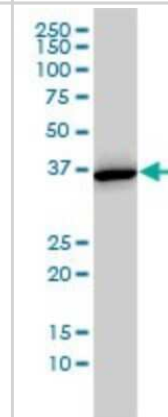
Immunocytochemistry/Immunofluorescence: Annexin A2 Antibody (1G7) [H00000302-M02] - Co-localization analysis: KS1767 cells grown overnight onto circular coverslips were incubated for 2h at 37degrees C with biotinylated LGRFYAASG-pen, or unconjugated LGRFYAASG (10uM). Untreated cells were used as controls. IF staining of biotinylated peptides (avidin-FITC, green) and annexin A2 (Cy3-conjugated secondary antibody, red) was analyzed with Fiji ImageJ. Co-localized pixels are visualized in white (arrows), and Manders' overlap coefficients are reported in the graph (**P<0.01; ***P<0.001 versus LGRFYAASG-pen). Image collected and cropped by CiteAb from the following publication ([nature.com/articles/s41598-017-03470-w](https://www.nature.com/articles/s41598-017-03470-w)), licensed under a CC-BY license.



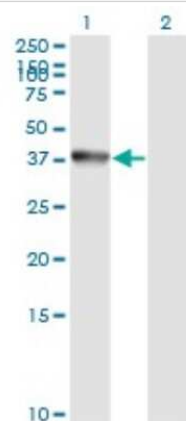
Western Blot: Annexin A2 Antibody (1G7) [H00000302-M02] - MDA-MB-231 subclones whole cell lysates were loaded with 30 ug/lane. 10% SDS-PAGE. ANXA2 Antibody (H00000302-M02) was used for primary antibody: 1:2000, 4C, overnight. WB image submitted by a verified customer review.



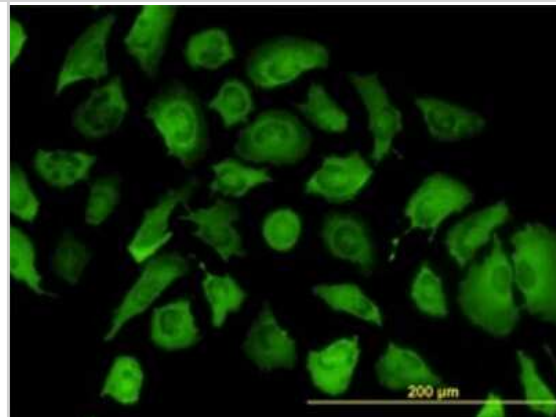
Western Blot: Annexin A2 Antibody (1G7) [H00000302-M02] - ANXA2 monoclonal antibody (M02), clone 1G7 Analysis of ANXA2 expression in HepG2.



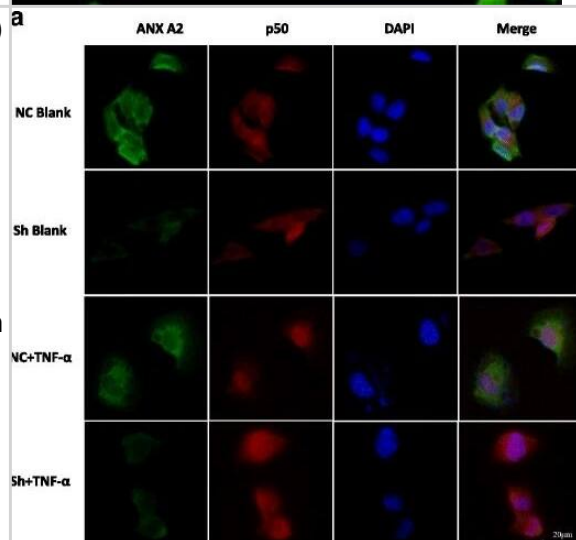
Western Blot: Annexin A2 Antibody (1G7) [H00000302-M02] - Analysis of ANXA2 expression in transfected 293T cell line by ANXA2 monoclonal antibody (M02), clone 1G7. Lane 1: ANXA2 transfected lysate (40.4 KDa). Lane 2: Non-transfected lysate.



Immunocytochemistry/Immunofluorescence: Annexin A2 Antibody (1G7) [H00000302-M02] - Analysis of monoclonal antibody to ANXA2 on HeLa cell. Antibody concentration 10 µg/ml.



Immunocytochemistry/ Immunofluorescence: Annexin A2 Antibody (1G7) [H00000302-M02] - ANXA2 could regulate the activation of NF-κB through combined with the subunit p50. a, b. The change in localization of endogenous p50 was analyzed by IF-IC following treatment with or without TNF-α (100 ng/ml) for 1 h. Nuclei were stained with DAPI. The nuclear localization of endogenous p50 in each group were quantitated as a graph. The plotted error bars represent mean ± SEM. The nuclear localization of p50 was quantified according to data from 5 random figures in each group. c. Interaction between ANXA2 & p50 in SK-N-BE (2) cells was validated through Co-IP & analyzed by western blotting with the indicated antibodies **: P < 0.01. All results are from at least three independent experiments Image collected & cropped by CiteAb from the following publication (<http://jeccr.biomedcentral.com/articles/10.1186/s13046-017-0581-6>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Wang Y, Chen K, Cai Y et al. Annexin A2 could enhance multidrug resistance by regulating NF- κ B signaling pathway in pediatric neuroblastoma *Journal of Experimental & Clinical Cancer Research* 2017-12-01 [PMID: 28814318] (Immunocytochemistry/ Immunofluorescence)

Tramutola A, Abate G, Lanzillotta C et al. Protein nitration profile of CD3+ lymphocytes from Alzheimer disease patients: Novel hints on immunosenescence and biomarker detection. *Free Radic Biol Med* 2018-10-12 [PMID: 30321702]

Na Pombejra S, Salemi M, Phinney BS, Gelli A et al. The Metalloprotease, Mpr1, Engages AnnexinA2 to Promote the Transcytosis of Fungal Cells across the Blood-Brain Barrier. *Front Cell Infect Microbiol* 2017-06-30 [PMID: 28713781]

Staquicini DI, Rangel R, Guzman-Rojas L et al. Intracellular targeting of annexin A2 inhibits tumor cell adhesion, migration, and in vivo grafting *Sci Rep* 2017-06-26 [PMID: 28652618] (ICC/IF, Mouse)

Deng FY, Lei SF, Zhang Y et al. Peripheral blood monocyte-expressed ANXA2 genes involved in pathogenesis of osteoporosis in humans. *Mol Cell Proteomics*. 2011-08-04 [PMID: 21817168]

Zakrzewicz D, Didiasova M, Zakrzewicz A et al. The interaction with caveolae-associated proteins regulates enolase-1 subcellular localization. *Biochem J*. 2014-06-01 [PMID: 24628430]

Menegay M, Lee D, Tabbara KF et al. Proteomic Analysis of Climatic Keratopathy Droplets. *Invest Ophthalmol Vis Sci*;49(7):2829-2837. 2008-01-01 [PMID: 18378572]





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

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NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP1-37086	Recombinant Human Annexin A2 His Protein

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