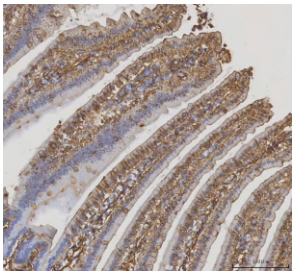
ANXA2 Antibody ABDG-1 / Annexin II Antibody [clone ABDG-1] (RQ5177)

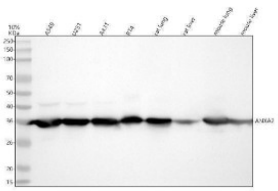
Catalog No.	Formulation	Size
RQ5177	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

Bulk quote request

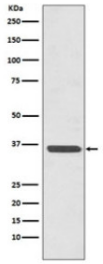
Species Reactivity	Human, Mouse, Rat
Format	Liquid
Host	Rabbit
Clonality	Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	ABDG-1
Purity	Affinity purified
UniProt	P07355
Applications	Western blot: 1:500 Immunohistochemistry (FFPE): 1:50
Limitations	This ANXA2 Antibody ABDG-1 / Annexin II Antibody is available for research use only.



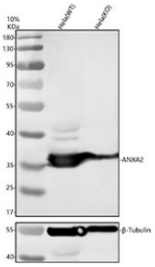
ANXA2 Antibody ABDG-1 in Mouse Colon IHC. Immunohistochemistry testing of clone ABDG-1 in FFPE mouse colon tissue. Heat-induced epitope retrieval was performed using pH 9 TE buffer prior to staining. Strong membranous and cytoplasmic Annexin II immunoreactivity is observed throughout the intestinal epithelium, with particularly prominent staining along the epithelial cell borders.



ANXA2 Antibody ABDG-1 in Human, Mouse and Rat WB. Western blot testing of clone ABDG-1 in human A549 lung carcinoma, U251 glioma, A431 epidermoid carcinoma and RT4 bladder cancer cell lysates, rat lung and liver tissue lysates, and mouse lung and liver tissue lysates. Samples were tested under reducing conditions with 30 ug loaded per lane. A strong band is observed at approximately 36 kDa across all tested samples, consistent with the calculated molecular weight of Annexin A2 at 38.6 kDa. This ANXA2 Antibody demonstrates recognition of endogenous Annexin II in human, mouse and rat samples.



ANXA2 Antibody ABDG-1 in Human HeLa Cervical Cancer Cells WB. Western blot testing of clone ABDG-1 in human HeLa cervical cancer cell lysate. A prominent band is observed at approximately 36-38 kDa, consistent with the expected molecular weight of Annexin A2 (~39 kDa). This ANXA2 Antibody demonstrates detection of endogenous Annexin II in human cells.



ANXA2 Antibody ABDG-1 WB Analysis of HeLa WT and ANXA2 KO Cell Lysates. Western blot analysis of human HeLa wild-type (lane 1) and ANXA2 knockout (lane 2) whole-cell lysates using Annexin II Antibody clone ABDG-1 at a 1:500 dilution. An immunoreactive band is detected at approximately 36 kDa in wild-type cells, with reduced signal in the ANXA2 knockout sample. Each lane contains 30 ug of total protein separated by 10% SDS-PAGE under reducing conditions. Beta-tubulin is shown as a loading control.

Description

ANXA2 Antibody ABDG-1 / Annexin II Antibody recognizes Annexin A2, a calcium-dependent phospholipid-binding protein encoded by the ANXA2 gene. Historically known as Annexin II, lipocortin II and p36, the protein belongs to the annexin family and associates with cellular membranes in response to calcium. Annexin A2 is also capable of interacting with the actin cytoskeleton, positioning it at an important interface between membrane organization and cytoskeletal dynamics.

Annexin A2 participates in membrane-associated processes that include vesicle trafficking, endocytosis, exocytosis and membrane domain organization. The protein can exist as a monomer or associate with S100A10 to form the Annexin A2/S100A10 heterotetramer. This complex contributes to cell-surface functions involving plasminogen activation and extracellular proteolysis, while interactions of Annexin A2 with membrane phospholipids and cytoskeletal components contribute to cellular organization and migration.

ANXA2 expression and function have been investigated in cancer, angiogenesis, cardiovascular biology, inflammation and immune responses. Increased Annexin A2 expression has been reported in multiple tumor types, and its relationships with cell migration, invasion and plasmin generation have made the protein a frequent target in cancer biology. Annexin II is also studied more broadly as a regulator of membrane-cytoskeleton interactions and cellular responses to changes in calcium signaling.

Clone ABDG-1 is a rabbit monoclonal antibody generated against a synthetic peptide derived from human Annexin A2 and purified by affinity chromatography. The antibody recognizes human, mouse and rat ANXA2, providing cross-species utility for studies of Annexin A2 expression and biology. NSJ Bioreagents provides this ANXA2 Antibody for research into membrane organization, cytoskeletal regulation and Annexin II-associated cellular processes.

For additional information on Annexin A2 biology and broader tissue, cell and species validation, visit our Annexin A2 Antibody / ANXA2 Membrane Binding Protein Antibody page.

Application Notes

Optimal dilution of the ANXA2 Antibody ABDG-1 / Annexin II Antibody should be determined by the researcher.

Immunogen

A synthetic peptide specific to human Annexin A2 / ANXA2 was used as the immunogen for the ANXA2 antibody.

Storage

Store the ANXA2 antibody at -20oC.

Alternate Names

ANXA2 antibody, Annexin A2 antibody, Annexin II antibody, Annexin 2 antibody, Lipocortin II antibody, Calpactin I heavy chain antibody

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