
Product Name: KD-Validated Annexin 4 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00752

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:1,000-1:2,000
Molecular Weight	Calculated MW: 35.9kDa

Antigen Information

Gene Name	ANXA4 ANXA4; Annexin A4; ANX4; Carbohydrate-Binding Protein P33/P41; Placental Anticoagulant Protein II; 35-Beta Calcimedlin; Chromobindin-4; Lipocortin IV; Endonexin I; Protein II;
Alternative Names	Annexin-4; PAP-II; P32.5; PP4-X; Annexin IV (Placental Anticoagulant Protein II); Epididymis Secretory Protein Li 274; Proliferation-Inducing Protein 28; Proliferation-Inducing Gene 28; Annexin IV; HEL-S-274; PIG28; ZAP36
Gene ID	307.0
SwissProt ID	P09525
Immunogen	Recombinant protein of human Annexin-4/ANXA4

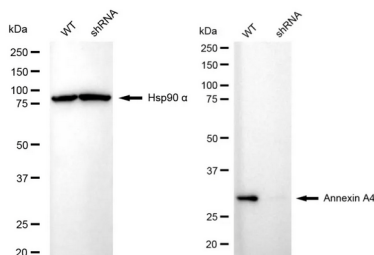
Background

Annexin IV (ANX4) belongs to the annexin family of calcium-dependent phospholipid binding proteins. Although their functions are still not clearly defined, several members of the annexin family have been implicated in membrane-related events along exocytotic and endocytotic pathways. ANX4 has 45 to 59% identity with other members of its family and shares a similar size and exon-intron organization. Isolated from human placenta, ANX4 encodes a protein that has possible interactions with ATP, and has in vitro anticoagulant activity and also inhibits phospholipase A2 activity. ANX4 is almost exclusively expressed in epithelial cells. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2016]

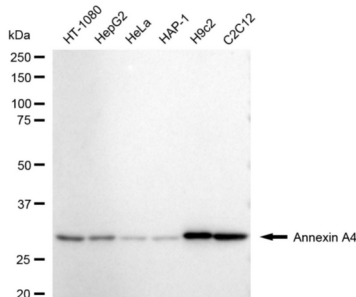
Research Area

Cardiovascular,Signal Transduction

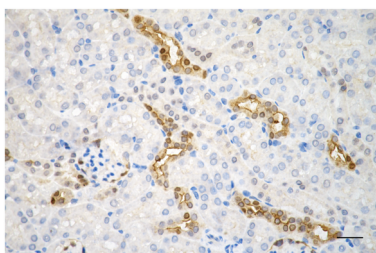
Image Data



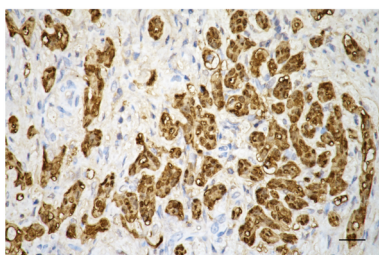
Western blotting analysis using annexin A4 antibody (KVA00752). Annexin A4 expression in wild-type (WT) and annexin A4 (ANXA4) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with annexin A4 antibody (KVA00752, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



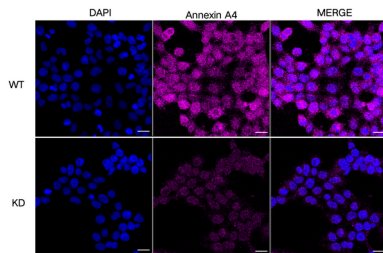
Western blotting analysis using annexin A4 antibody (KVA00752). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with annexin A4 antibody (KVA00752, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



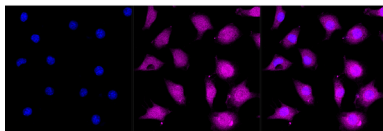
Immunohistochemistry was performed on paraffin-embedded mouse kidney using annexin A4 antibody (KVA00752, 1:2,000). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



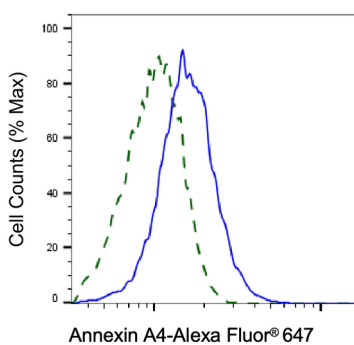
Immunohistochemistry was performed on paraffin-embedded human pancreatic adenocarcinoma using annexin A4 antibody (KVA00752, 1:2,000). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



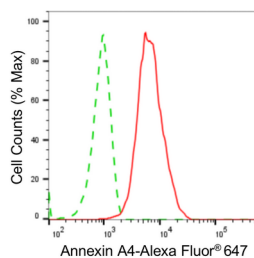
Immunocytochemical staining of HeLa cells using annexin A4 antibody (KVA00752, 1:1,000), Top panel: wild-type (WT); Bottom panel: Annexin A4 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Annexin A4 was stained magenta with Alexa Fluor® 647. Scale bar, 20 μm.



Immunocytochemical staining of C2C12 cells with Annexin A4 antibody (KVA00752, 1:1,000). Nuclei were stained blue with DAPI; Annexin A4 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and Smart Gain: High. Scale bar, 20 μm.



Validation of Annexin A4 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Annexin A4 antibody (KVA00752, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Annexin A4 expression in C2C12 cells using Annexin A4 antibody (KVA00752, 1:2,000). Green, isotype control; red, Annexin A4.