For Research Use Only

Annexin A7 Polyclonal antibody

Catalog Number:10154-2-AP Featured Product 16 Publications

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Basic Information

Catalog Number:
10154-2-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG0206

GenBank Accession Number:
BC002632

GeneID (NCBI):
310

UNIPROT ID:
P20073

Full Name:
annexin A7

Calculated MW:
50 kDa

Observed MW:
47 kDa, 51 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:2000-1:16000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:200-1:800
FC (Intra): 0.40 ug per 10^6 cells in a 100 µl suspension

Applications

Tested Applications:
WB, IHC, FC (Intra), IP, ELISA

Cited Applications:
WB, IHC, IF, IP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : A549 cells, Jurkat cells, L02 cells, mouse lung tissue, HeLa cells, RAW 264.7 cells, rat brain tissue, mouse brain tissue, mouse heart tissue

IP : U-87 MG cells, mouse heart tissue

IHC : mouse heart tissue, human pancreas tissue, human prostate cancer tissue, human stomach tissue, human stomach cancer tissue, mouse stomach tissue, rat stomach tissue

FC (Intra) : SH-SY5Y cells,

Background Information

Annexin A7 (Anx7) belongs to a ubiquitous and relatively abundant family of Ca2+-dependent membrane-binding proteins, which are thought to be involved in multiple aspects of cell biology including membrane trafficking, mediation of cell-matrix interactions and membrane organization within cells. Anx7, migrated as a 50 kDa protein in SDS-PAGE, has been proposed to function in the fusion of vesicles, acting as a Ca++ channel and as Ca++ -activated GTPase, thus inducing Ca++ /GTP-dependent secretory events.

Notable Publications

Author	Pubmed ID	Journal	Application
Hu-Fang Yuan	25400735	Int J Clin Exp Pathol	WB,IHC
Ahmed Musa Hago	27914826	Biomed Pharmacother	WB
Hu-Fang Yuan	31217851	Am J Transl Res	IHC

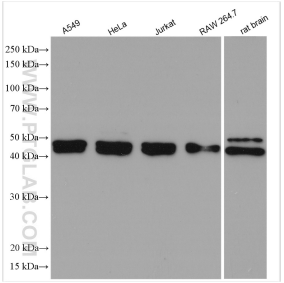
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

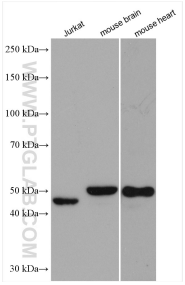
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 10154-2-AP (Annexin A7 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



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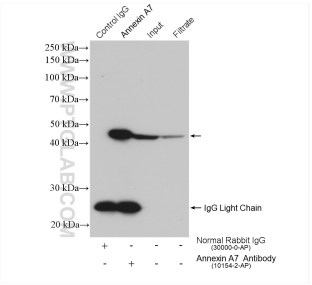
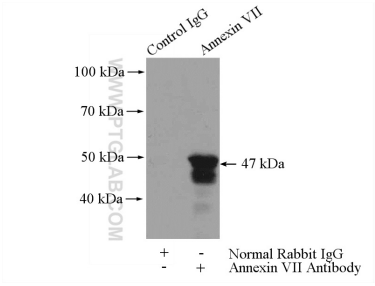
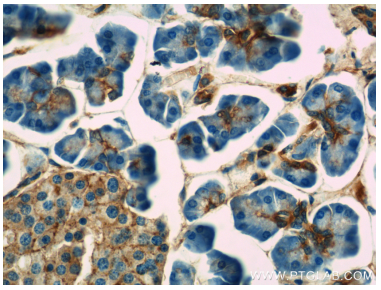


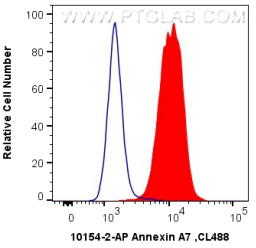
IP result of anti-Annexin A7 (IP:10154-2-AP, 4ug; Detection:10154-2-AP 1:8000) with U-87 MG cells lysate 1160 ug.



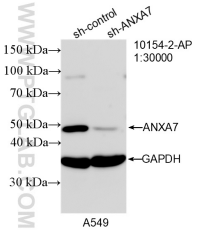
IP result of anti-Annexin A7 (IP:10154-2-AP, 4ug; Detection:10154-2-AP 1:800) with mouse heart tissue lysate 3200ug.



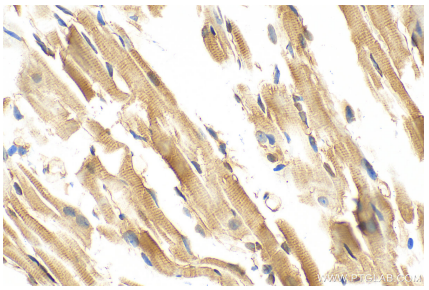
Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 10154-2-AP (Annexin VII antibody at dilution of 1:50 (under 40x lens).



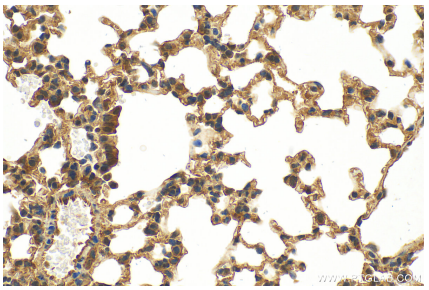
1X10^6 SH-SY5Y cells were intracellularly stained with 0.4 ug Anti-Human Annexin A7 (10154-2-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.



WB result of Annexin A7 antibody (10154-2-AP; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Annexin A7 transfected A549 cells.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 10154-2-AP (Annexin A7 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 10154-2-AP (Annexin A7 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).