

ARG43228 anti-Annexin A5 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Annexin A5
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-Fr, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Annexin A5
Species	Human
Immunogen	Recombinant protein corresponding to A2-D320 of Human Annexin A5.
Conjugation	Un-conjugated
Alternate Names	Placental anticoagulant protein 4; PAP-I; Thromboplastin inhibitor; Annexin V; ENX2; Lipocortin V; Anchorin CII; ANX5; Annexin-5; Annexin A5; VAC-alpha; CBP-I; PP4; HEL-S-7; Vascular anticoagulant-alpha; Endonexin II; Placental anticoagulant protein I; RPRGL3; Calphobindin I

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	ICC/IF	1:200 - 1:1000
	IHC-Fr	1:200 - 1:1000
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000

Application Note IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size ~ 36 kDa

Properties

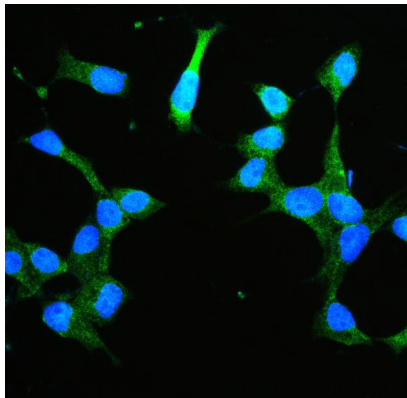
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA

Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

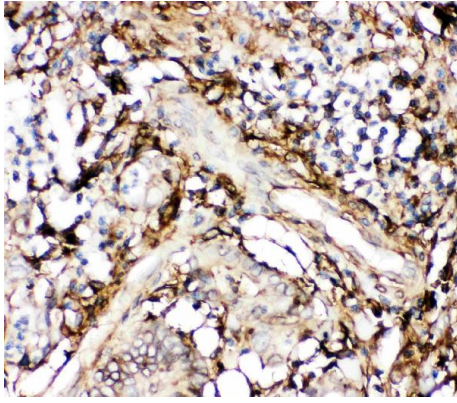
Gene Symbol	ANXA5
Gene Full Name	annexin A5
Background	The Annexin 5 gene spans 29 kb containing 13 exons, and encodes a single transcript of approximately 1.6 kb and a protein product with a molecular weight of about 35 kDa. The protein encoded by this gene belongs to the annexin family of calcium-dependent phospholipid binding proteins some of which have been implicated in membrane-related events along exocytotic and endocytotic pathways. Annexin 5 is a phospholipase A2 and protein kinase C inhibitory protein with calcium channel activity and a potential role in cellular signal transduction, inflammation, growth and differentiation. Annexin 5 has also been described as placental anticoagulant protein I, vascular anticoagulant-alpha, endonexin II, lipocortin V, placental protein 4 and anchorin CII. Polymorphisms in this gene have been implicated in various obstetric complications. [provided by RefSeq, Dec 2019]
Function	This protein is an anticoagulant protein that acts as an indirect inhibitor of the thromboplastin-specific complex, which is involved in the blood coagulation cascade. [UniProt]
Calculated Mw	36 kDa
PTM	S-nitrosylation is induced by interferon-gamma and oxidatively-modified low-density lipoprotein (LDL(ox)) possibly implicating the iNOS-S100A8/9 transnitrosylase complex. [UniProt]

Images



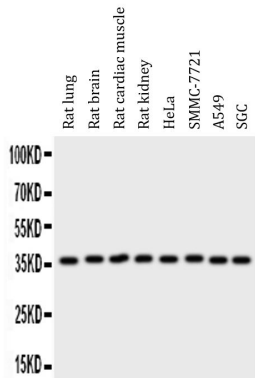
ARG43228 anti-Annexin A5 antibody ICC/IF image

Immunofluorescence: RH-35 cells stained with ARG43228 anti-Annexin A5 antibody (green) at 2 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



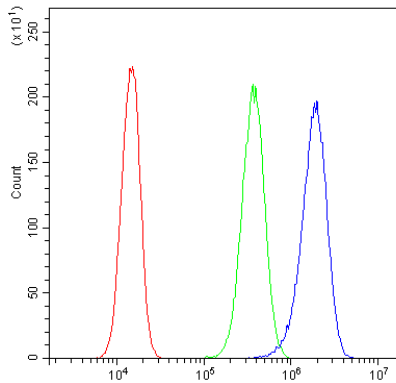
ARG43228 anti-Annexin A5 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human intestinal cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43228 anti-Annexin A5 antibody at 1 µg/ml dilution, overnight at 4°C.



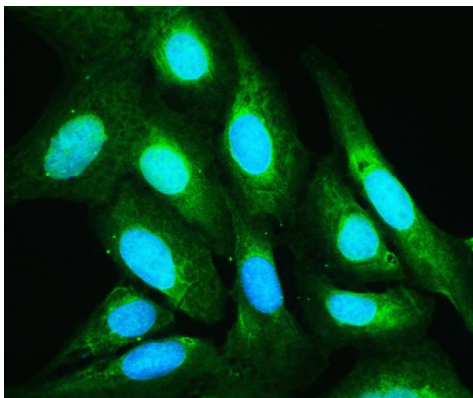
ARG43228 anti-Annexin A5 antibody WB image

Western blot: 50 µg of sample under reducing conditions. Rat lung, Rat brain, Rat cardiac muscle, Rat kidney, HeLa, SMMC-7721, A549 and SGC whole cell lysates stained with ARG43228 anti-Annexin A5 antibody at 0.5 µg/ml dilution, overnight at 4°C.



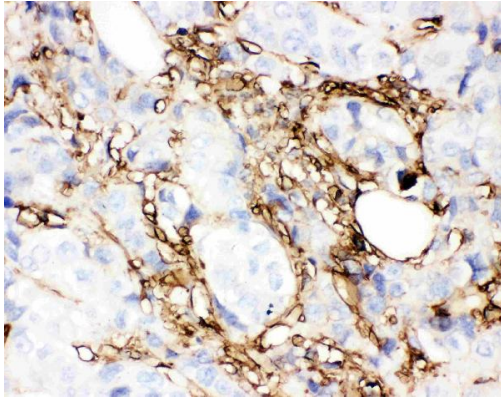
ARG43228 anti-Annexin A5 antibody FACS image

Flow Cytometry: PC-3 cells were blocked with 10% normal goat serum and then stained with ARG43228 anti-Annexin A5 antibody (blue) at 1 µg/10⁶ cells for 30 min at 20°C, followed by incubation with DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 µg/10⁶ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



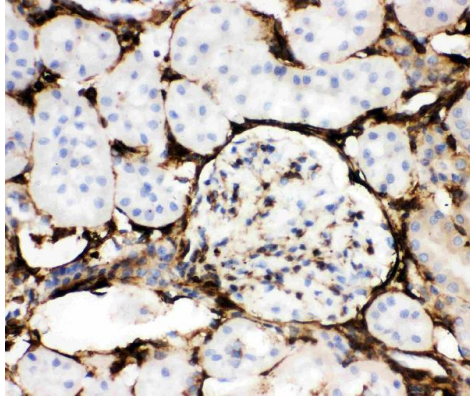
ARG43228 anti-Annexin A5 antibody ICC/IF image

Immunofluorescence: U2OS cells stained with ARG43228 anti-Annexin A5 antibody (green) at 2 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



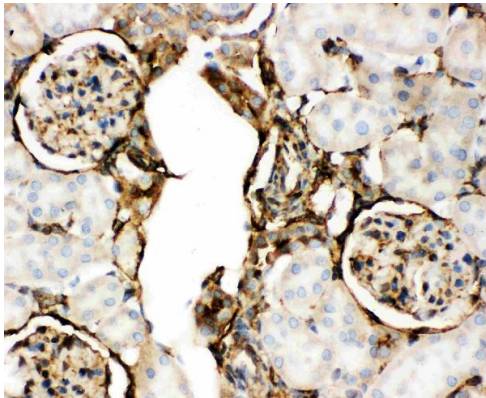
ARG43228 anti-Annexin A5 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human mammary cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43228 anti-Annexin A5 antibody at 1 $\mu\text{g}/\text{ml}$ dilution, overnight at 4°C.



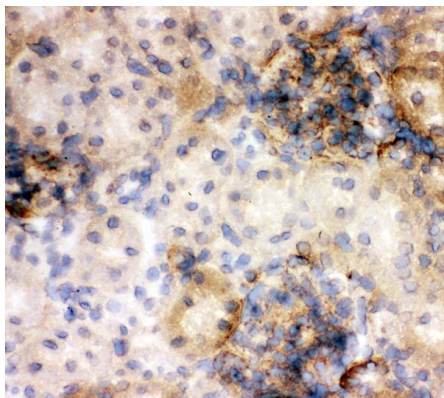
ARG43228 anti-Annexin A5 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse kidney tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43228 anti-Annexin A5 antibody at 1 $\mu\text{g}/\text{ml}$ dilution, overnight at 4°C.



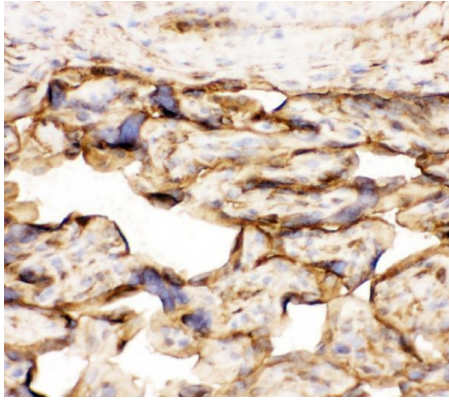
ARG43228 anti-Annexin A5 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat kidney tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43228 anti-Annexin A5 antibody at 1 $\mu\text{g}/\text{ml}$ dilution, overnight at 4°C.



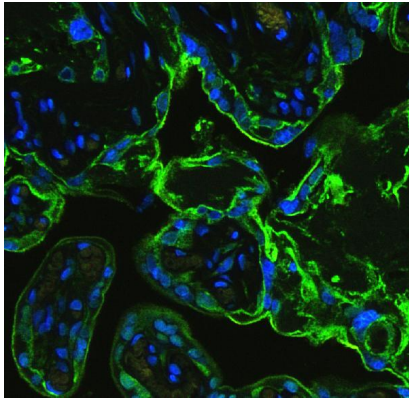
ARG43228 anti-Annexin A5 antibody IHC-Fr image

Immunohistochemistry: Frozen section of Rat kidney tissue. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43228 anti-Annexin A5 antibody at 1 $\mu\text{g}/\text{ml}$ dilution, overnight at 4°C.



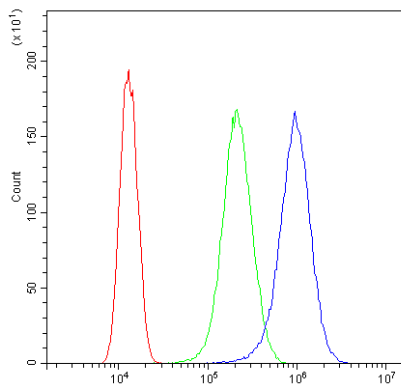
ARG43228 anti-Annexin A5 antibody IHC-Fr image

Immunohistochemistry: Frozen section of Human placenta tissue. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43228 anti-Annexin A5 antibody at 1 $\mu\text{g}/\text{ml}$ dilution, overnight at 4°C.



ARG43228 anti-Annexin A5 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human placenta cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43228 anti-Annexin A5 antibody at 2 $\mu\text{g}/\text{ml}$ dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



ARG43228 anti-Annexin A5 antibody FACS image

Flow Cytometry: SiHa cells were blocked with 10% normal goat serum and then stained with ARG43228 anti-Annexin A5 antibody (blue) at 1 $\mu\text{g}/10^6$ cells for 30 min at 20°C, followed by incubation with DyLight®488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 $\mu\text{g}/10^6$ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.