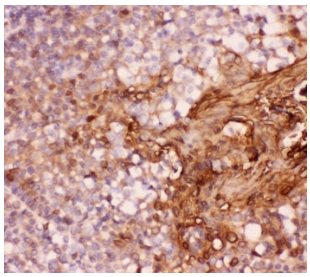
Annexin A1 Antibody (R31548)

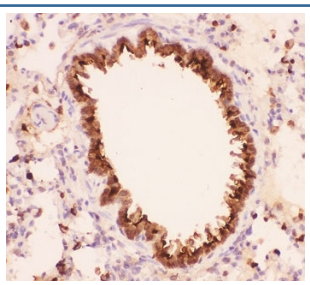
Catalog No.	Formulation	Size
R31548	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

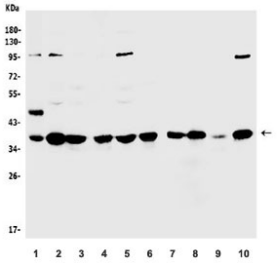
Availability	1-3 business days
Species Reactivity	Human, Monkey, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	301
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This Annexin A1 antibody is available for research use only.



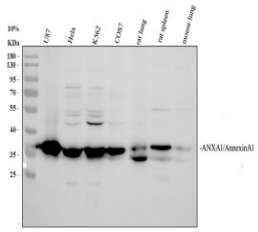
Annexin A1 Antibody Human Tonsil IHC. Immunohistochemistry staining of FFPE human tonsil tissue was performed with Annexin A1 Antibody. Heat-induced epitope retrieval was performed by boiling tissue sections in EDTA buffer, pH 8, for 20 min followed by cooling. Positive staining is observed in populations of immune cells and surrounding tissue compartments. This Annexin A1 Antibody demonstrates ANXA1 expression in human tonsil and supports studies of Annexin A1 in immune and inflammatory signaling.



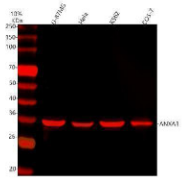
Annexin A1 Antibody Rat Lung Bronchial Epithelium IHC. Immunohistochemistry staining of FFPE rat lung tissue was performed with Annexin A1 Antibody. Heat-induced epitope retrieval was performed by boiling tissue sections in EDTA buffer, pH 8, for 20 min followed by cooling. Strong positive staining is observed in the bronchial epithelial cells lining the airway. This Annexin A1 Antibody demonstrates ANXA1 expression in rat lung and supports studies of Annexin A1 in pulmonary and inflammatory biology.



Annexin A1 Antibody Human, Monkey and Rat Sample WB. Western blot analysis was performed with Annexin A1 Antibody using 1) human HeLa, 2) human K562, 3) monkey COS-7, 4) human A549, 5) human PC-3, 6) human U-2 OS, 7) rat spleen, 8) rat lung, 9) rat kidney and 10) rat C6 lysates. A prominent band is detected near the predicted molecular weight of approximately 38 kDa across the tested samples. This Annexin A1 Antibody demonstrates ANXA1 detection across multiple human, monkey and rat cell and tissue lysates.



Annexin A1 Antibody Human, Monkey, Rat and Mouse WB. Western blot analysis of Annexin A1 was performed using human U87, HeLa and K562 cells, monkey COS7 cells, rat lung and spleen, and mouse lung lysates. Lane 1: U87; Lane 2: HeLa; Lane 3: K562; Lane 4: COS7; Lane 5: rat lung; Lane 6: rat spleen; Lane 7: mouse lung. Samples were loaded at 30 ug per lane, and the rabbit polyclonal Annexin A1 Antibody was used at 0.5 ug/ml overnight at 4oC. A prominent Annexin A1 band is detected at approximately 36 kDa, near the predicted molecular weight of approximately 39 kDa, demonstrating ANXA1 detection across human, monkey, rat and mouse samples.



Annexin A1 Antibody Human and Monkey Cell WB. Western blot analysis of Annexin A1 was performed using human U-87 MG, HeLa and K562 cell lysates and monkey COS-7 cell lysate. Lane 1: U-87 MG; Lane 2: HeLa; Lane 3: K562; Lane 4: COS-7. Samples were loaded at 30 ug per lane, and the rabbit polyclonal Annexin A1 Antibody was used at 0.5 ug/ml overnight at 4oC, followed by DyLight 647-conjugated secondary antibody detection. A prominent band is detected at approximately 35 kDa in all four cell lysates, near the predicted molecular weight of approximately 39 kDa, demonstrating ANXA1 detection in human and monkey cells.

Description

ANXA1, also known as Lipocortin I or Annexin A1, is a protein that in humans is encoded by the ANXA1 gene. It is mapped to 9q21.13. It belongs to a family of Ca(2+)-dependent phospholipid binding proteins which have a molecular weight of approximately 35,000 to 40,000 and are preferentially located on the cytosolic face of the plasma membrane. ANXA1 protein has an apparent relative molecular mass of 40 kDa, with phospholipase A2 inhibitory activity. Lower peptide concentrations possibly found in inflammatory situations elicit Ca(2+) transients without fully activating the mitogen-activated protein kinase pathway. This causes a specific inhibition of the transendothelial migration of neutrophils and a desensitization of neutrophils toward a chemoattractant challenge. These findings identified ANXA1 peptides as novel, endogenous FPR ligands and established a mechanistic basis of ANXA1-mediated antiinflammatory effects.

Researchers studying Annexin A1 expression and function can explore our Protein Microarray Validated Annexin A1 Antibody page for additional reagents targeting ANXA1 in inflammatory signaling, immune regulation and cancer biology.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Annexin A1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 2-346) was used as the immunogen for this Annexin A1 antibody.

Storage

After reconstitution, the Annexin A1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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