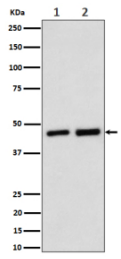
Annexin A7 Antibody / ANXA7 [clone 30A75] (FY12511)

Catalog No.	Formulation	Size
FY12511	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA	100 ul

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	2-3 weeks
Species Reactivity	Human, Mouse, Rat
Format	Liquid
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	30A75
Purity	Affinity-chromatography
Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
UniProt	P20073
Applications	Western blot: 1:500-1:2000 Immunohistochemistry: 1:50-1:200 Immunoprecipitation: 1:50
Limitations	This Annexin A7 antibody is available for research use only.



Western blot analysis of Annexin 7 expression in (1) human Jurkat cell lysate; (2) rat kidney lysate using Annexin A7 antibody. Predicted molecular weight: 50-53 kDa (two isoforms).

Description

Annexin A7 antibody detects annexin A7, a calcium and phospholipid binding protein encoded by the ANXA7 gene.

Annexin A7 belongs to the annexin protein family, which share conserved annexin repeat domains that mediate calcium dependent membrane interactions. This protein participates in exocytosis, membrane fusion, and calcium signaling, making it a key regulator of vesicular transport and cellular communication across multiple tissues.

Annexin A7 antibody is widely applied in neuroscience, cardiovascular biology, and oncology. In the nervous system, annexin A7 contributes to synaptic vesicle release and neurotransmitter secretion. In cardiac muscle, it supports calcium handling and myocardial contractility. Dysregulation of annexin A7 has been associated with several cancers, where it influences tumor growth, cell motility, and drug resistance. By detecting annexin A7, researchers can study its role in both normal physiology and disease mechanisms.

In western blot assays, annexin A7 antibody identifies protein bands of the expected molecular weight in tissue lysates. Immunohistochemistry maps annexin A7 expression in brain, heart, and epithelial tissues, while immunofluorescence highlights cytoplasmic and membrane localization. These applications enable detailed analysis of annexin A7 in cellular signaling and trafficking.

Annexin A7 is involved in calcium dependent regulation of phospholipase activity and contributes to processes including apoptosis, proliferation, and membrane repair. Altered expression has been linked to cancer biology, cardiovascular disorders, and neurological diseases. In oncology, annexin A7 has been studied as both a tumor suppressor and promoter, depending on cellular context. By applying annexin A7 antibody, scientists can investigate how annexin mediated pathways affect tumor progression and therapy response.

Beyond cancer and cardiovascular research, annexin A7 also plays roles in endocrine function, fertility, and immune signaling. Its presence in secretory cells suggests contributions to hormone release and immune mediator secretion. These diverse functions emphasize the importance of annexin A7 as a research target across multiple biological systems.

Annexin A7 antibody from NSJ Bioreagents delivers reliable specificity for detecting this multifunctional calcium binding protein. Its strong performance across techniques ensures accurate results, supporting basic research as well as translational studies in neuroscience, cardiology, and oncology.

Application Notes

Optimal dilution of the Annexin A7 antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human Annexin A7 was used as the immunogen for the Annexin A7 antibody.

Storage

Store the Annexin A7 antibody at -20oC.

Copyright © NSJ Bioreagents. All rights reserved.