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ANXA7 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8738c

Product Information

Application	IHC-P, FC, WB, E
Primary Accession	P20073
Other Accession	Q07076, Q4R5L5, P20072
Reactivity	Human, Mouse
Predicted	Bovine, Monkey, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22076
Calculated MW	52739
Antigen Region	329-356

Additional Information

Gene ID	310
Other Names	Annexin A7, Annexin VII, Annexin-7, Synexin, ANXA7, ANX7, SNX
Target/Specificity	This ANXA7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 329-356 amino acids from the Central region of human ANXA7.
Dilution	IHC-P~~1:100~500 FC~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ANXA7 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ANXA7
Synonyms	ANX7, SNX

Function	Calcium/phospholipid-binding protein which promotes membrane fusion and is involved in exocytosis.
Tissue Location	Isoform 1 is expressed in brain, heart and skeletal muscle. Isoform 2 is more abundant in liver, lung, kidney, spleen, fibroblasts and placenta.

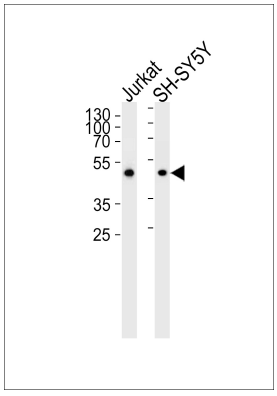
Background

Annexin VII is a member of the annexin family of calcium-dependent phospholipid binding proteins.The Annexin VII gene contains 14 exons and spans approximately 34 kb of DNA. An alternatively spliced cassette exon results in two mRNA transcripts of 2.0 and 2.4 kb which are predicted to generate two protein isoforms differing in their N-terminal domain. ANXA7 is a protein with a molecular weight of approximately 51 kDa with a unique, highly hydrophobic N-terminal domain of 167 amino acids and a conserved C-terminal region of 299 amino acids. The latter domain is composed of alternating hydrophobic and hydrophilic segments. Structural analysis of the protein suggests that Annexin VII is a membrane binding protein with diverse properties, including voltage-sensitive calcium channel activity, ion selectivity and membrane fusion.

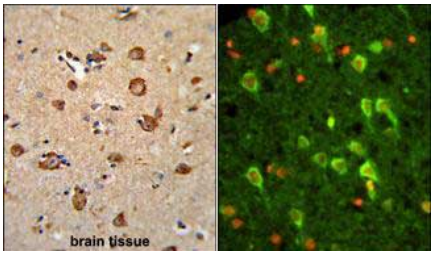
References

Shirvan,A., et.al., Biochemistry 33 (22), 6888-6901 (1994)

Images

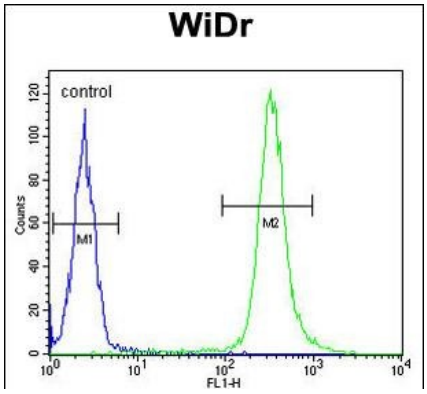


ANXA7 Antibody (Center) (Cat.# AP8738c) western blot analysis in Jurkat and SH-SY5Y cell lysates (35ug/lane). This demonstrates that the ANXA7 antibody detected ANXA7 protein (arrow).



(LEFT)Formalin-fixed and paraffin-embedded human brain tissue reacted with ANXA7 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.(RIGHT)Immunofluorescence analysis of ANXA7 Antibody (Center) with paraffin-embedded human brain tissue . 0.05 mg/ml primary antibody was followed by FITC-conjugated goat anti-rabbit IgG (whole molecule). FITC emits green fluorescence. Red counterstaining is PI.

ANXA7 Antibody (Center) (Cat. #AP8738c) flow cytometric analysis of WiDr cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



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