e at -20C	Annexin A7 Antibody	T C	Cell Signaling		
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
		Support:	877-678-TECH (8324)		
#3666		Web:	info@cellsignal.com cellsignal.com		
#		3 Trask Lane Danvers Ma	3 Trask Lane Danvers Massachusetts 01923 USA		

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 47, 51	Source/Isotype: Rabbit	UniProt ID: #P20073	Entrez-Gene Id: 310			
Product Usage Information	2	Application Western Blotting			Dilution 1:1000				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.							
Specificity/Sensitivity		Annexin A7 Antibody detects endogenous levels of total annexin A7 protein, including isoforms 1 and 2.							
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human annexin A7. Antibodies are purified using protein A and peptide affinity chromatography.							
Background		Annexin A7/ANXA7 is a member of the annexin family of calcium/phospholipid-binding proteins, and is involved in the process of membrane fusion and exocytosis (1). Annexin A7 is a GTPase, and both GTP- binding and PKC activity are important in regulating protein function (2,3). Membrane binding of annexin A7 is calcium dependent (4). Two isoforms exist due to alternative splicing. Subcellular localization of annexin A7 has been shown to be in the cytoplasm, vesicular structures, membrane and in adrenal chromaffin granules (5,6). Nuclear localization has been shown in the developing mouse central nervous system as well as in adult mouse brain (7). Annexin A7-deficient mouse studies show that the protein has a role in insulin secretion and calcium signaling (8) as well as cardiac intracellular calcium homeostasis electrical stability (9). The gene for annexin A7 is a putative tumor suppressor (10), and alterations in the copy number have been reported in prostate cancer (11). Annexin A7 expression has also been correlated with survival in human glioblastoma patients (12), and haploinsufficiency in mice may promote genetic instability leading to tumorigenesis (13).							
Background R	eferences	3. Caohuy, H. et al. (19 4. Chander, A. et al. (2 5. Selbert, S. et al. (19 6. Clemen, C.S. et al. (19 6. Clemen, C.S. et al. (2005 8. Srivastava, M. et al. 9. Schrickel, J.W. et al. 10. Srivastava, M. et al. 11. Dong, J.T. (2006) <i>J</i> 12. Hung, K.S. and Ho	lard, H.B. (2002) <i>J E</i> 296) <i>Proc Natl Acad</i> 003) <i>Cell Calcium</i> 3 95) <i>J Cell Sci</i> 108 (F 2001) <i>Neuroreport</i>) <i>BMC Neurosci</i> 6, (1999) <i>Proc Natl A</i> (2007) <i>Cardiovasc</i> I. (2001) <i>Proc Natl</i> <i>Cell Biochem</i> 97, 43 wwng, S.L. (2003) <i>J N</i>	<i>iol Chem</i> 277, 25217-25. <i>I Sci USA</i> 93, 10797-802. 3, 11-7. 12, 1139-44. 25. <i>cad Sci USA</i> 96, 13783-8. <i>Res</i> 76, 257-68. Acad Sci USA 98, 4575-80 33-47.					
Species Reacti	vity	Species reactivity is de	etermined by testir	ng in at least one approve	ed application (e.g.,	western blot).			
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.							
Applications K	Applications Key		W: Western Blotting						
Cross-Reactivity Key		H: Human Mk: Monkey							
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.							
		The Annexin V-FITC co Technologies BV.	onjugate is a produ	ct manufactured for Cell	Signaling Technolo	gy, Inc. by TAU			

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