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Annexin V Antibody



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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 30	Source/Isotype: Rabbit	UniProt ID: #P08758	Entrez-Gene Id: 308
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Annexin V Antibody recognizes endogenous levels of total annexin V protein. This antibody is not predicted to cross-react with other annexin family members.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human annexin V protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Annexin V, also known as PAP-1 or Lipocortin V, is an ~30 kDa protein that binds to phospholipids in a calcium-dependent manner (1). All annexins contain a putative PKC binding site, but only annexin V has been identified as an inhibitor of this pathway (2). Via direct interaction with VEGFR-2 receptor, annexin V may also signal to regulate vascular endothelial cell proliferation (3). Annexin V preferentially binds phosphatidylserine in competition with prothrombin, leading to inhibition of blood coagulation at sites of injury preceding contact between lipid components and coagulation factors that initiate thrombosis (4-6). The ability of annexin V to bind specifically and robustly to phosphatidylserine makes it an attractive reagent in detecting apoptotic cells (7). Annexin V is inducible by glucocorticoids and can be phosphorylated by tyrosine and serine/threonine kinases (8). It is thought to block the production of inflammation mediators, such as prostaglandins and leukotrienes by inhibiting the release of arachidonic acid from membranes by phospholipase A2 (8).				
Background References		 Huber, R. et al. (1990) EMBO J 9, 3867-74. Cardó-Vila, M. et al. (2003) Mol Cell 11, 1151-62. Wen, Y. et al. (1999) Biochem Biophys Res Commun 258, 713-21. Koopman, G. et al. (1994) Blood 84, 1415-20. London, F. et al. (1996) Biochemistry 35, 16886-97. Thiagarajan, P. and Benedict, C.R. (1997) Circulation 96, 2339-47. Vermes, I. et al. (1995) J Immunol Methods 184, 39-51. Grundmann, U. et al. (1988) Proc Natl Acad Sci USA 85, 3708-12. 				
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).				

Western Blot Buffer

Cross-Reactivity Key

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 Key W: Western Blotting

H: Human M: Mouse R: Rat Mk: Monkey

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