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Annexin A1 (D16A10) Rabbit mAb


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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M Mk Pg	Endogenous	38	Rabbit IgG	#P04083	301

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	Annexin A1 (D16A10) Rabbit mAb recognizes endogenous levels of total annexin A1 protein. This antibody does not cross-react with other members of the annexin family.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val236 of human annexin A1 protein.	
Background	<p>The annexin superfamily consists of 13 calcium or calcium and phospholipid binding proteins with high biological and structural homology (1). Annexin-1 (ANXA1) is the first characterized member of the annexin family of proteins and is able to bind to cellular membranes in a calcium-dependent manner, promoting membrane fusion and endocytosis (2-4). Annexin A1 has anti-inflammatory properties and inhibits phospholipase A2 activity (5,6). Annexin A1 can accumulate on internalized vesicles after EGF-stimulated endocytosis and may be required for a late stage in inward vesiculation (7). Phosphorylation by PKC, EGFR, and Chak1 results in inhibition of annexin A1 function (8-10). Annexin A1 has also been identified as one of the 'eat-me' signals on apoptotic cells that are to be recognized and ingested by phagocytes (11). Annexin A1, as an endogenous anti-inflammatory mediator, has roles in many diverse cellular functions, such as membrane aggregation, inflammation, phagocytosis, proliferation, apoptosis, and tumorigenesis and cancer development (12-14).</p>	
Background References	<ol style="list-style-type: none"> 1. Raynal, P. and Pollard, H.B. (1994) <i>Biochim Biophys Acta</i> 1197, 63-93. 2. Blackwell, G.J. et al. (1980) <i>Nature</i> 287, 147-9. 3. Rothhut, B. et al. (1983) <i>Biochem Biophys Res Commun</i> 117, 878-84. 4. Hirata, F. et al. (1981) <i>Proc Natl Acad Sci USA</i> 78, 3190-4. 5. Kim, K.M. et al. (1994) <i>FEBS Lett</i> 343, 251-5. 6. Kim, S.W. et al. (2001) <i>J Biol Chem</i> 276, 15712-9. 7. White, I.J. et al. (2006) <i>EMBO J</i> 25, 1-12. 8. Varticovski, L. et al. (1988) <i>Biochemistry</i> 27, 3682-90. 9. Dorovkov, M.V. and Ryazanov, A.G. (2004) <i>J Biol Chem</i> 279, 50643-6. 10. Wang, W. and Creutz, C.E. (1994) <i>Biochemistry</i> 33, 275-82. 11. Arur, S. et al. (2003) <i>Dev Cell</i> 4, 587-98. 12. Perretti, M. and Gavins, F.N. (2003) <i>News Physiol Sci</i> 18, 60-4. 13. Parente, L. and Solito, E. (2004) <i>Inflamm Res</i> 53, 125-32. 14. Lim, L.H. and Pervaiz, S. (2007) <i>FASEB J</i> 21, 968-75. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved 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 Key	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected

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