

#3299 Store at -20°C

Annexin A1 Antibody



100 µl
 (10 Western mini-blots)

Orders ■ 877-616-CELL (2355)
 orders@cellsignaling.com
Support ■ 877-678-TECH (8324)
 info@cellsignaling.com
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New 09/08

This product is for *in vitro* research use only and is not intended for use in humans or animals.
 This product is not intended for use as a therapeutic or in diagnostic procedures.

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W Endogenous	H, M, R, Mk	37 kDa	Rabbit**

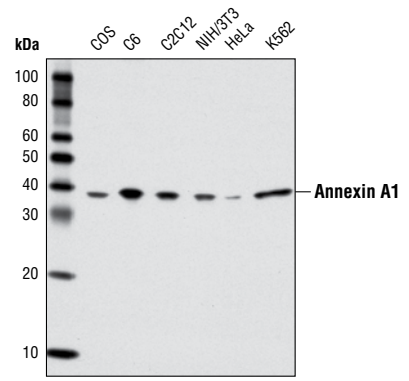
Background: The annexin superfamily consists of 13 calcium or calcium and phospholipid binding proteins with high biological and structural homology (1). Annexin-1 (ANXA1) is the first characterized member of the annexin family of proteins able to bind to cellular membranes in a calcium-dependent manner which promotes membrane fusion and is involved in 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, suggesting that it 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 to be recognised 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).

Specificity/Sensitivity: Annexin A1 Antibody detects endogenous levels of total annexin A1 protein.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide (KLH-coupled) corresponding to human annexin A1. Antibodies are purified by peptide affinity chromatography.

Background References:

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- Kim, S.W. et al. (2001) *J Biol Chem* 276, 15712-9.
- White, I.J. et al. (2006) *EMBO J* 25, 1-12.
- Varticovski, L. et al. (1988) *Biochemistry* 27, 3682-90.
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- Wang, W. and Creutz, C.E. (1994) *Biochemistry* 33, 275-82.
- Arur, S. et al. (2003) *Dev Cell* 4, 587-98.
- Perretti, M. and Gavins, F.N. (2003) *News Physiol Sci* 18, 60-4.
- Parente, L. and Solito, E. (2004) *Inflamm Res* 53, 125-32.
- Lim, L.H. and Pervaiz, S. (2007) *FASEB J* 21, 968-75.



Western blot analysis of extracts from various cell lines using Annexin A1 Antibody.

Entrez-Gene ID #301
Swiss-Prot Acc. #P04083

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.

***Species cross-reactivity is determined by Western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignaling.com.

Companion Products:

- Phospho-cPLA2 (Ser505) Antibody #2831
- cPLA2 Antibody #2832
- Phospho-PKC Antibody Sampler Kit #9921
- PKC Isoform Antibody Sampler Kit #9960
- Phototope®-HRP Western Blot Detection System, Anti-rabbit IgG, HRP-linked Antibody #7071
- Anti-rabbit IgG, HRP-linked Antibody #7074
- Prestained Protein Marker, Broad Range (Premixed Format) #7720
- Biotinylated Protein Ladder Detection Pack #7727
- 20X LumiGLO® Reagent and 20X Peroxide #7003

Please visit www.cellsignaling.com for a complete listing of recommended companion products.

IMPORTANT: For Western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebra fish B—bovine
 Dg—dog Pg—pig Sc—S. cerevisiae All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.