

Acinus Antibody

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For Research Use Only. Not For Use In Diagnostic Procedures.

Entrez-Gene ID #22985
UniProt ID #Q9UKV3

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W, IF-IC Endogenous	H, M, R, Mk	84, 86, 220 kDa	Rabbit**

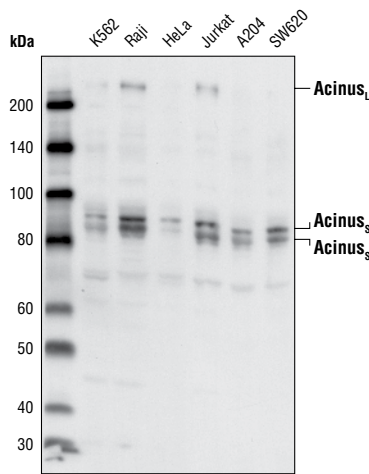
Background: Acinus (apoptotic chromatin condensation inducer in the nucleus) is a caspase substrate that has been implicated in nuclear changes during apoptosis (1). Chromatin condensation and DNA fragmentation are both nuclear morphological features associated with apoptosis. Acinus is expressed in different isoforms (L, S, S') most likely generated by alternative splicing (1). During apoptosis Acinus is cleaved by caspase-3 to generate a 23 kDa fragment that was reported to induce chromatin condensation (1). Acinus has been identified to be a component of the spliceosome complex, ASAP, suggesting a role in pre-mRNA processing (2-4). Down regulation of Acinus by RNA interference inhibits cell growth (5). This study also found that loss of Acinus inhibits DNA fragmentation but not chromatin condensation during apoptosis.

Specificity/Sensitivity: Acinus Antibody detects endogenous levels of total Acinus protein. The antibody recognizes L, S and S' isoforms.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala835 of Acinus. Antibodies are purified by protein A and peptide affinity chromatography.

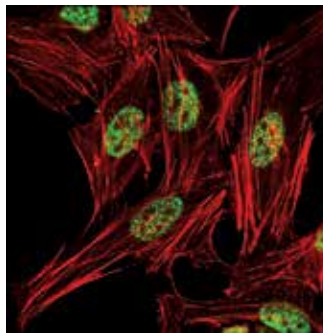
Background References:

- (1) Sahara, S. et al. (1999) *Nature* 401, 168-173.
- (2) Schwer, C. et al. (2003) *Mol. Cell. Biol.* 23, 2981-2990.
- (3) Zhou, Z. et al. (2002) *Nature* 419, 182-185.
- (4) Rappsilber, J. et al. (2002) *Genome Res.* 12, 1231-1245.
- (5) Joselin, A.P. et al. (2006) *J. Biol. Chem.* 281, 12475-12484.



Western blot analysis of extracts from various cell lines, using Acinus Antibody.

HeLa



Confocal immunofluorescent analysis of HeLa cells using Acinus Antibody (green). Actin filaments were labeled with DyLight™ 554 Phalloidin #13054 (red).

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
Immunofluorescence (IF-IC) 1:50

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

Please visit www.cellsignal.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—zebrafish B—bovine
Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.