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Polyclonal Antibody to ACINUS (CP)

Alternate names: Apoptotic chromatin condensation inducer in the nucleus

Catalog No.: SP6219P

Quantity: 50 µg

Concentration: 0.5 mg/ml

Host: Rabbit

Immunogen: Rabbit anti-Acinus (CP) polyclonal antibody was raised against a synthetic peptide corresponding to amino acids 1065 to 1080 of human AcinusL, 338 to 353 of human AcinusS', or 307 to 322 of human AcinusS, which are identical to those of mouse Acinus (2). The selected antigenic sequence is located near the C-terminus of the cleaved active peptide p17.

Applications: Western blot: 0.5 - 1 µg/ml. K562 cell lysate can be used as positive control and an approximate 220 kDa band can be detected. Other applications not tested. Optimal dilutions of this antibody are dependent on conditions and should be determined by the user.
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Specificity: This antibody recognises Acinus (apoptosis chromatin condensation inducer in the nucleus), an inducer of chromatin condensation. Chromatin condensation and nuclear fragmentation (CCNF) is the hallmark of apoptosis. CCNF is triggered by the activation of members of caspase family, caspase activated DNase (CAD/DFF40), and several novel proteins including AIF and CIDE (1). A new inducer of chromatin condensation was recently identified and designated Acinus (for apoptotic chromatin condensation inducer in the nucleus). Acinus is cleaved by caspase-3 and an additional unknown protease generating a small active peptide p17, which causes chromatin condensation in vitro when it is added to purified nuclei. Acinus also induces apoptotic chromatin condensation in cells. Acinus is ubiquitously expressed. Three different spliced forms of Acinus have been identified in human and mouse and designated AcinusL, AcinusS and AcinusS' (2).

Storage: Store at +4oC or at -20oC if preferred. This product should be stored undiluted. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:
1. Zamzami N, Kroemer G. Condensed matter in cell death. Nature. 1999 Sep 9;401(6749):127-8. PubMed PMID: 10490018.
2. Sahara S, Aoto M, Eguchi Y, Imamoto N, Yoneda Y, Tsujimoto Y. Acinus is a caspase-3-activated protein required for apoptotic chromatin condensation. Nature. 1999 Sep 9;401(6749):168-73. PubMed PMID: 10490026.

For research and in vitro use only. Not for diagnostic or therapeutic work.
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com