

Polyclonal Antibody to ACINUS (IN)

- Alternate names:** Apoptotic chromatin condensation inducer in the nucleus
- Catalog No.:** SP6216P
- Quantity:** 50 µg
- Concentration:** 0.5 mg/ml
- Host:** Rabbit
- Immunogen:** Rabbit anti-Acinus (IN) polyclonal antibody was raised against a peptide (DTSENRPENDVPEPP) corresponding to amino acids 775 to 789 of human AcinusL, 48 to 62 of human AcinusS', or 17 to 31 of human AcinusS, which differ from those of mouse Acinus by one amino acid (2).
- Applications:** Western blot: 0.5 - 1µg/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 the antibody at 4-8°C for one month or at -20°C for longer. 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.