

Anti-Acinus (IN)

CATALOG No.: PX003A **SIZE:** 100 µg
 PX003B **SIZE:** 0.5 mg

BACKGROUND:

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).

SOURCE:

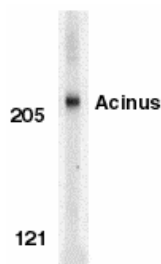
Rabbit anti-Acinus (IN) polyclonal antibody was raised against a peptide (DTSENRPENDVPEPP) corresponding to amino acids 775 to 789 of human AcinusL, 48 to 62 of human AcinusS', or 17 to 31 of human AcinusS, which differ from those of mouse Acinus by one amino acid (2).

APPLICATION:

This polyclonal antibody can be used for detection of Acinus by Western blot at 0.5 to 1 µg/ml. K562 cell lysate can be used as positive control and an approximate 220 kDa band can be detected. For research use only.

STORAGE:

It is supplied as immunoaffinity chromatography purified IgG, 100 µg in 200 µl of PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of Acinus in K562 whole cell lysate with anti-Acinus (IN) at 1 µg/ml.

RELATED PRODUCTS:

Blocking peptide, 50 µg at 200 µg/ml, is available for competition studies.

K562 cell lysate, 200 µg at 2 mg/ml, is available for positive control.

REFERENCES:

1. Zamzami N, Kroemer G. Condensed matter in cell death. *Nature* 1999 ;401:127-8.
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 401:168-73.

CAUTION: NOT FOR USE IN HUMANS. FOR RESEARCH PURPOSES ONLY.



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