

Acinus Antibody

Acinus (NP)

CATALOG NO.: 2241

BACKGROUND:

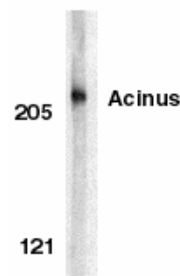
Chromatin condensation and nuclear fragmentation (CCNF) is the hallmark of apoptosis. CCNF is triggered by the activation of members of caspase family, caspase activated DNase (CAD/DFF40), and several novel proteins including AIF and CIDE (1). A new inducer of chromatin condensation was recently identified 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 polyclonal Acinus antibody was raised against a peptide (DDPVRTAQVSPPRGK) corresponding to amino acids 994 to 1009 of human AcinusL, 267 to 282 of human AcinusS', or 236 to 251 of human AcinusS, which are identical to those of mouse Acinus (2). The selected antigenic sequence is located near the N-terminus of active peptide p17.

APPLICATION:

Acinus antibody can be used for detection of Acinus by Western blot at 0.5 to 1 µg/ml. (Optimal dilution should be determined by user.) K562 cell lysate can be used as positive control and an approximate 220 kDa band can be detected. **For research use only.**



Western blot analysis of Acinus in K562 whole cell lysate with Acinus antibody at 1 µg/ml.

STORAGE:

Acinus antibody is supplied as immunoaffinity chromatography purified IgG, in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.

RELATED PRODUCTS:

Blocking peptide, 50 µg at 200µg/ml, is available for competition studies (Catalog No. **2241P**).

K562 Cell Lysate, 100 µg at 2 mg/ml, is available for positive control (Catalog No. **1204**).

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. (WD0800)