



## Acinus (NP). Rabbit Polyclonal Antibody KIAA0670

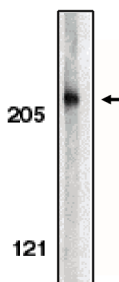
### BACKGROUND

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).

### IMMUNOGEN

Synthetic peptide (DDPVRTAQVPSPRGK) 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.

Western blot analysis using anti-Acinus (NP) antibody at 1  $\mu$ g/ml on K562 cell lysate.



### ORDERING INFORMATION

**CATALOG NUMBER**

X1105P

**SIZE**100  $\mu$ g**FORM**

Unconjugated

**HOST/CLONE**

Rabbit

**FORMULATION**

Provided in phosphate buffered saline solution containing 0.02% sodium azide as a preservative

**CONCENTRATION**

See vial for concentration

**ISOTYPE**

IgG

**APPLICATIONS**

Western Blot

**SPECIES REACTIVITY**

Human

**ACCESSION NUMBER**

Human Q9UKV3

**POSITIVE CONTROL/TISSUE EXPRESSION**

K562 cell lysate

**COMMENTS**

Detects Acinus by Western blot at 0.5 to 1.0  $\mu\text{g/ml}$ . Detects a 220 kDa band in K562 cell lysate. Optimal concentration should be evaluated by serial dilutions.

**PURIFICATION**

Antigen Immunoaffinity Purification

**SHIP CONDITIONS**

Ship at ambient temperature, freeze upon arrival

**STORAGE CUSTOMER**

Product should be stored at  $-20^{\circ}\text{C}$ . Aliquot to avoid freeze/thaw cycles

**STABILITY**

Products are stable for one year from purchase when stored properly

**REFERENCES**

1. Condensed matter in cell death. Zamzami, N and Kroemer, G. , Nature, 1999 , 401, 127-8
2. Acinus is a caspase-3-activated protein required for apoptotic chromatin condensation. Sahara S, et al., Nature, 1999, 401, 168-73

**PRODUCT SPECIFIC REFERENCES**