Exalpha biologicals INC

Acinus (IN). Rabbit Polyclonal Antibody

Apoptotic chromatin condensation inducer in the nucleus, ACINUS, KIAA0670

Background

Chromatin condensation and nuclear fragmentation (CCNF) is the hallmark of apoptosis. CCNF is triggered by the activation of members of the 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).

Ordering Information

Catalog Number
X1104P

Size
100 μg

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

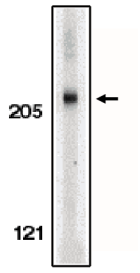
Accession Number

Human	Q9UKV3

Immunogen

Synthetic 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).

Western blot analysis using anti-Acinus (IN) antibody at 1 μg/ml on K562 cell lysate.



For research use only. Not for use in human diagnostics or therapeutics.

Exalpha Biologicals, Inc. 2 Shaker Road, Bldg. B101 Shirley, MA 01464
Tel: 800.395.1137 Fax: 866.924.5100 www.exalpha.com info@exalpha.com

Positive Control/Tissue Expression

K562 cell lysate

Comments

Detects Acinus by Western blot at 0.5 to 1.0 μg/ml. Detects a 220 kDa band in K562 cell lysate. Optimal concentration should be evaluated by serial dilutions.

Purification

Antigen Immunoaffiinity Purification

Ship Conditions

Ship at ambient temperature, freeze upon arrival

Storage Customer

Product should be stored at -20ºC. 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