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Datasheet for 600-401-X63

# ACINUS Antibody

## Overview

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| **Description:** | Anti-ACINUS (RABBIT) Antibody - 600-401-X63 |
| **Item No.:** | 600-401-X63 |
| **Size:** | 100 µg |
| **Applications:** | ELISA, IF, IHC, WB |
| **Reactivity:** | Human |
| **Host Species:** | Rabbit |

## Product Details

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| **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. 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'. |
| **Synonyms:** | Acinus Antibody, ACN, ACINUS, fSAP152, KIAA0670, Apoptotic chromatin condensation inducer in the nucleus, Acinus |
| **Host Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |

## Target Details

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| **Gene Name:** | ACIN1 |
| **Reactivity:** | Human |
| **Immunogen Type:** | Conjugated Peptide |

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| **Immunogen:** | Anti-Acinus antibody was prepared from whole rabbit serum produced by repeated immunizations with a 35 amino acid peptide near the internal region of human Acinus. |
| **Purity/Specificity:** | Anti-Acinus Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Acinus from other sources has not been determined. |
| **Relevant Links:** | • UniProtKB - Q9UKV3<br>• GeneID - 22985<br>• NCBI - AAD56724 |

## Application Details

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| **Tested Applications:** | ELISA, IF, IHC, WB |
| **Application Note:** | Anti-Acinus Antibody has been tested for use in ELISA, Immunocytochemistry, Immunofluorescence and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at ~220 kDa in size corresponding to Acinus protein by Western Blotting in the appropriate cell lysate or extract. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **ELISA:** | 1:10,000 |
| **IF:** | 20 µg/mL |
| **WB:** | 1 µg/mL |

## Formulation

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| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 1 mg/mL by UV absorbance at 280 nm |
| **Buffer:** | 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2 |
| **Preservative:** | 0.02% (w/v) Sodium Azide |
| **Stabilizer:** | None |

## Shipping & Handling

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| **Shipping Condition:** | Dry Ice |

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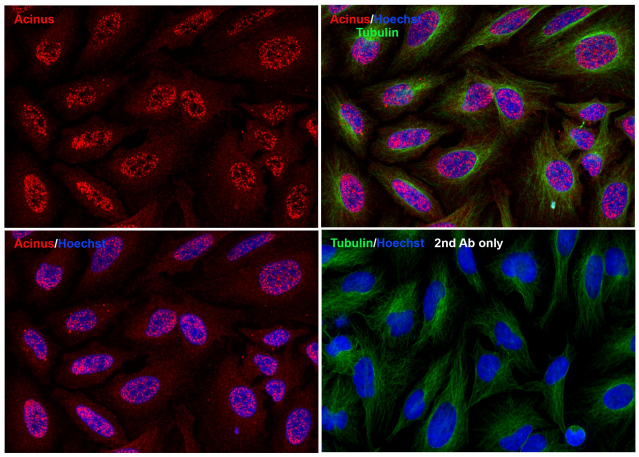
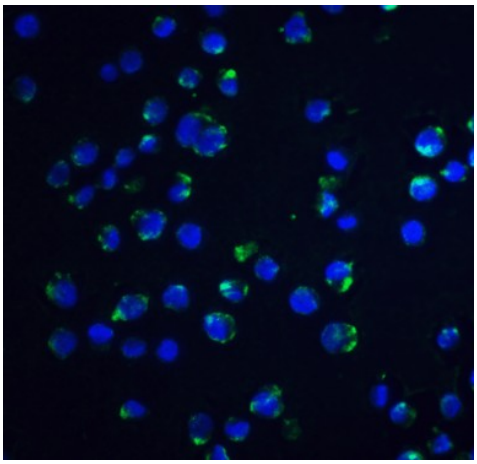
| **Storage Condition:** | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| **Expiration:** | Expiration date is one (1) year from date of receipt. |

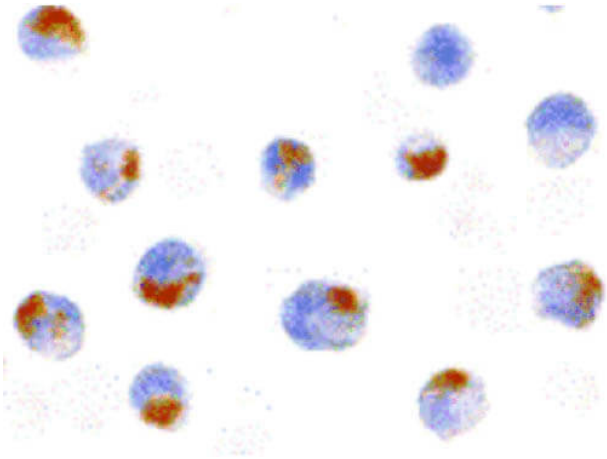
## Images



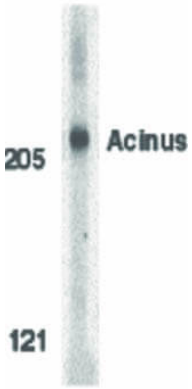

**Immunofluorescence Microscopy**
Immunofluorescence Validation of Acinus In HeLa Cells. Immunofluorescent analysis of methanol-fixed HeLa cells labeling Acinus at at 10 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/1000 dilution (red) and Hoechst staining (blue). Alpha tubulin was stained with anti-alpha tubulin antibody following by goat anti-mouse IgG secondary antibody (green). Images were captured with confocal microscopy.



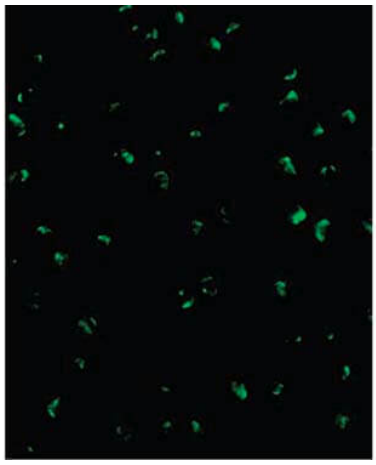
**Immunofluorescence Microscopy**
Immunofluorescence of Acinus in K562 cells with Acinus antibody at 20 µg/ml. Green: Acinus Antibody. Blue: DAPI staining.



**Immunocytochemistry**
Immunocytochemistry of Acinus antibody. Cells: K562 cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Acinus antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Acinus is nuclear. Staining: Acinus as precipitated brown signal with hematoxylin blue nuclear counterstain.




**Western Blot**
Western Blot of Acinus antibody. Lane 1: K562 whole cell lysate. Load: 35 µg per lane. Primary antibody: Acinus antibody at 1 µg/mL for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 151.9 kDa, 210 kDa for Acinus.



**Immunofluorescence Microscopy**
Immunofluorescence Microscopy of Acinus antibody. Tissue: K562 cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Acinus antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Acinus is nuclear. Staining: Acinus as green fluorescent signal.

## Disclaimer

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