Acinus Antibody

Applications: WB, IF-IC
Reactivity: H M R Mk
Sensitivity: Endogenous
MW (kDa): 220, 84, 86
Source: Rabbit
UniProt ID: #Q9UKV3
Entrez-Gene Id: 22985

Product Usage Information

<table>
<thead>
<tr>
<th>Application</th>
<th>Dilution</th>
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<tbody>
<tr>
<td>Western Blotting</td>
<td>1:1000</td>
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<tr>
<td>Immunofluorescence (IF-IC)</td>
<td>1:50</td>
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Storage
Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity
Acinus Antibody detects endogenous levels of total Acinus protein. The antibody recognizes L, S and S' isoforms.

Source / Purification
Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala835 of Acinus. Antibodies are purified by protein A and peptide affinity chromatography.

Background
Acinus (apoptotic chromatin condensation inducer in the nucleus) is a caspase substrate that has been implicated in nuclear changes during apoptosis (1). Chromatin condensation and DNA fragmentation are both nuclear morphological features associated with apoptosis. Acinus is expressed in different isoforms (L, S, S') most likely generated by alternative splicing (1). During apoptosis Acinus is cleaved by caspase-3 to generate a 23 kDa fragment that was reported to induce chromatin condensation (1). Acinus has been identified to be a component of the spliceosome complex, ASAP, suggesting a role in pre-mRNA processing (2-4). Down regulation of Acinus by RNA interference inhibits cell growth (5). This study also found that loss of Acinus inhibits DNA fragmentation but not chromatin condensation during apoptosis.

Background References

Species Reactivity
Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer
IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key
WB: Western Blotting
IF-IC: Immunofluorescence (IF-IC)

Cross-Reactivity Key
GP: Guinea Pig Rab: rabbit All: all species expected

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