

**ACIN1 / Acinus Antibody (aa775-789)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS12670****Specification**

---

**ACIN1 / Acinus Antibody (aa775-789) - Product Information**

Application	IF, IHC, ICC
Primary Accession	<a href="#">O9UKV3</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	152kDa KDa

**ACIN1 / Acinus Antibody (aa775-789) - Additional Information****Gene ID** 22985**Other Names**

Apoptotic chromatin condensation inducer in the nucleus, Acinus, ACIN1, ACINUS, KIAA0670

**Target/Specificity**

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

**Reconstitution & Storage**

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

**Precautions**

ACIN1 / Acinus Antibody (aa775-789) is for research use only and not for use in diagnostic or therapeutic procedures.

**ACIN1 / Acinus Antibody (aa775-789) - Protein Information****Name** ACIN1**Synonyms** ACINUS, KIAA0670**Function**

Auxiliary component of the splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junction on mRNAs. The EJC is a dynamic structure consisting of core proteins and several peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. Component of the ASAP complexes which bind RNA in a sequence-independent manner and are proposed to be recruited to the EJC prior to or during the splicing process and to regulate specific excision of introns in specific transcription subsets; ACIN1 confers RNA-binding to the complex. The ASAP complex can inhibit RNA processing during in vitro splicing reactions. The ASAP complex promotes apoptosis and is disassembled after induction of apoptosis. Involved in the splicing modulation of BCL2L1/Bcl-X

(and probably other apoptotic genes); specifically inhibits formation of proapoptotic isoforms such as Bcl-X(S); the activity is different from the established EJC assembly and function. Induces apoptotic chromatin condensation after activation by CASP3. Regulates cyclin A1, but not cyclin A2, expression in leukemia cells.

#### **Cellular Location**

Nucleus. Nucleus speckle. Nucleus, nucleoplasm. Note=Phosphorylation on Ser-1180 by SRPK2 redistributes it from the nuclear speckles to the nucleoplasm

#### **Tissue Location**

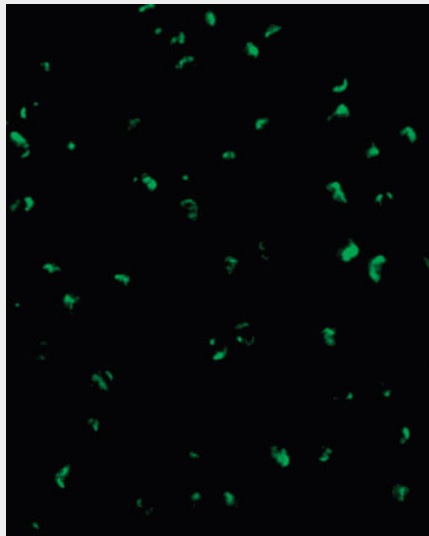
Ubiquitous. The Ser-1180 phosphorylated form (by SRPK2) is highly expressed and phosphorylated in patients with myeloid hematologic malignancies

### **ACIN1 / Acinus Antibody (aa775-789) - Protocols**

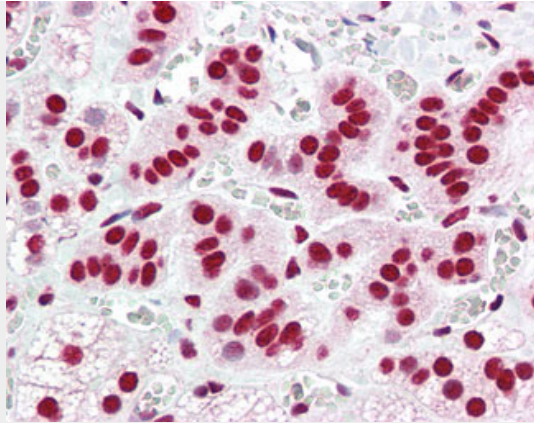
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

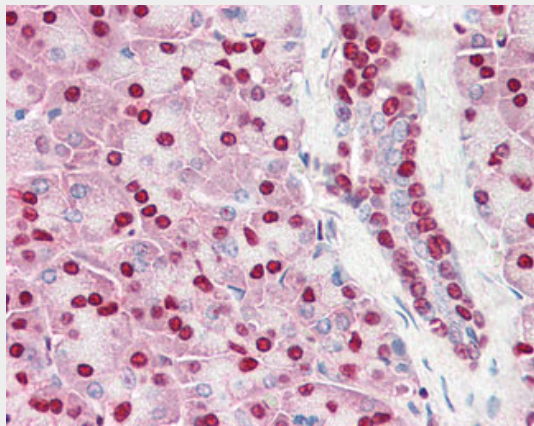
### **ACIN1 / Acinus Antibody (aa775-789) - Images**



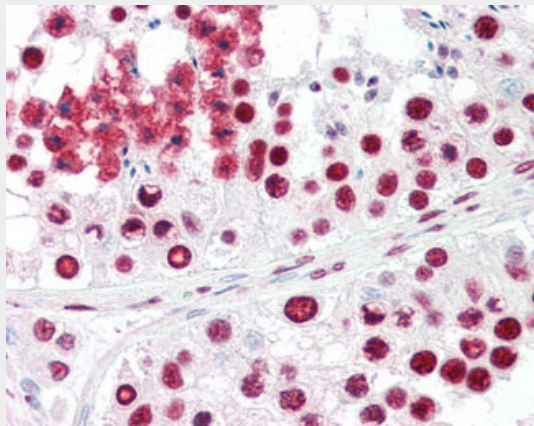
Immunofluorescence of Acinus in K562 cells with Acinus antibody at 20 ug/ml.



Anti-ACIN1 / Acinus antibody IHC of human adrenal.



Anti-ACIN1 / Acinus antibody IHC of human pancreas.



Anti-ACIN1 / Acinus antibody IHC of human testis.



Immunocytochemistry of Acinus in K562 cells with Acinus antibody at 5 µg/ml.

**ACIN1 / Acinus Antibody (aa775-789) - Background**

Auxiliary component of the splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junction on mRNAs. The EJC is a dynamic structure consisting of core proteins and several peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. Component of the ASAP complexes which bind RNA in a sequence-independent manner and are proposed to be recruited to the EJC prior to or during the splicing process and to regulate specific excision of introns in specific transcription subsets; ACIN1 confers RNA-binding to the complex. The ASAP complex can inhibit RNA processing during in vitro splicing reactions. The ASAP complex promotes apoptosis and is disassembled after induction of apoptosis. Involved in the splicing modulation of BCL2L1/Bcl-X (and probably other apoptotic genes); specifically inhibits formation of proapoptotic isoforms such as Bcl-X(S); the activity is different from the established EJC assembly and function. Induces apoptotic chromatin condensation after activation by CASP3. Regulates cyclin A1, but not cyclin A2, expression in leukemia cells.

#### **ACIN1 / Acinus Antibody (aa775-789) - References**

- Sahara S., et al. Nature 401:168-173(1999).
- Li W.B., et al. Submitted (FEB-2003) to the EMBL/GenBank/DDBJ databases.
- Heilig R., et al. Nature 421:601-607(2003).
- Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
- Ishikawa K., et al. DNA Res. 5:169-176(1998).