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ACIN1 / Acinus Antibody
Rabbit Polyclonal Antibody
Catalog # ALS12669

Specification

ACIN1 / Acinus Antibody - Product Information

Application	**IF, IHC, ICC**
Primary Accession	Q9UKV3
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**152kDa KDa**

ACIN1 / Acinus Antibody - Additional Information

Gene ID 22985

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

Target/Specificity
Peptide corresponding to amino acids near the carboxy terminus of human AcinusL, which are identical to those of mouse Acinus.

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

Precautions
ACIN1 / Acinus Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

ACIN1 / Acinus Antibody - 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

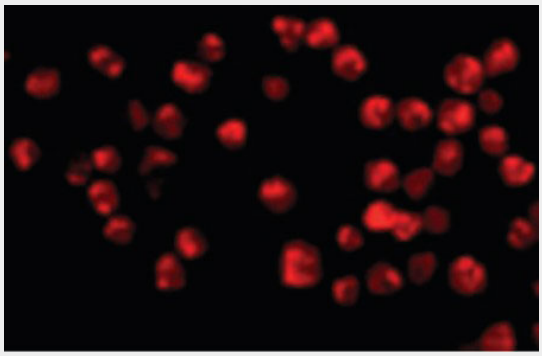
Tissue Location
Ubiquitous. The Ser-1180 phosphorylated form (by SRPK2) is highly expressed and phosphorylated in patients with myeloid hematologic malignancies

ACIN1 / Acinus Antibody - Protocols

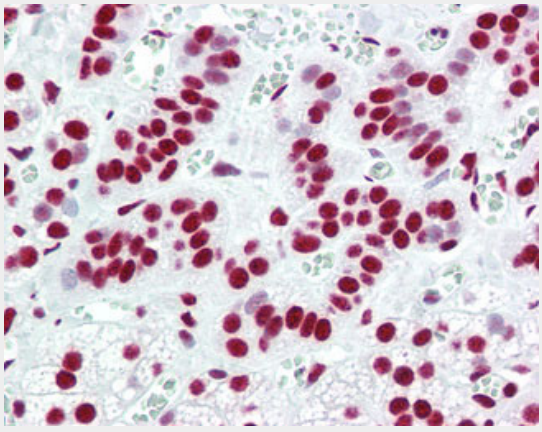
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

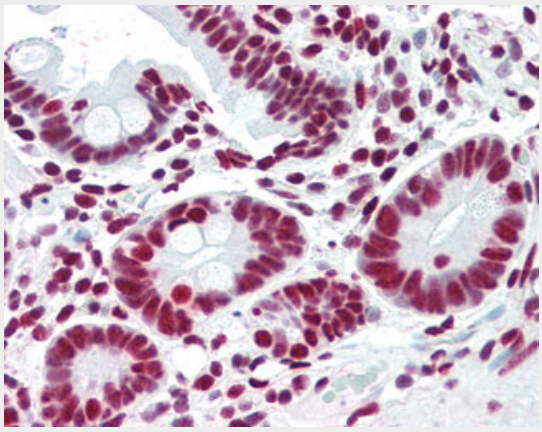
ACIN1 / Acinus Antibody - Images



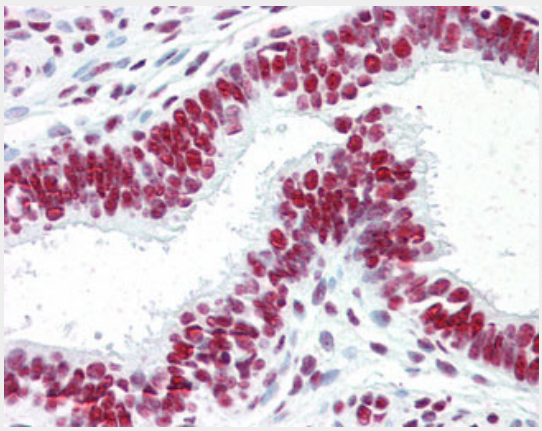
Immunofluorescence of Acinus in K562 cells with Acinus antibody at 20 ug/ml.



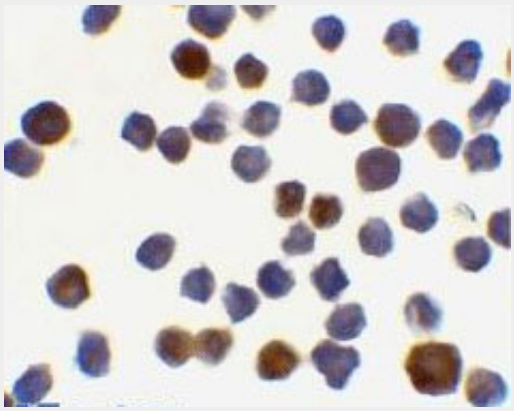
Anti-ACIN1 / Acinus antibody IHC of human adrenal.



Anti-ACIN1 / Acinus antibody IHC of human small intestine.



Anti-ACIN1 / Acinus antibody IHC of human uterus.



Immunocytochemistry of Acinus in K562 cells with Acinus antibody at 0.5 µg/ml.

ACIN1 / Acinus Antibody - Background

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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 - 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).