10320 Camino Santa Fe, Suite G
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ACIN1 / Acinus Antibody (clone 3H8)
Mouse Monoclonal Antibody
Catalog # ALS17148

Specification

ACIN1 / Acinus Antibody (clone 3H8) - Product Information

Application	**IHC-P, IP**
Primary Accession	Q9UKV3
Other Accession	22985
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**151862**

ACIN1 / Acinus Antibody (clone 3H8) - Additional Information

Gene ID 22985

Other Names
ACIN1, ACINUS, ACN, KIAA0670, FSAP152

Target/Specificity
Human ACINUSL. Antibody reacts with ACINUSL (220 kDa) in Western blots.

Reconstitution & Storage
PBS, pH 7.2, 50% glycerol. Store at -20°C.

Precautions
ACIN1 / Acinus Antibody (clone 3H8) is for research use only and not for use in diagnostic or therapeutic procedures.

ACIN1 / Acinus Antibody (clone 3H8) - 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

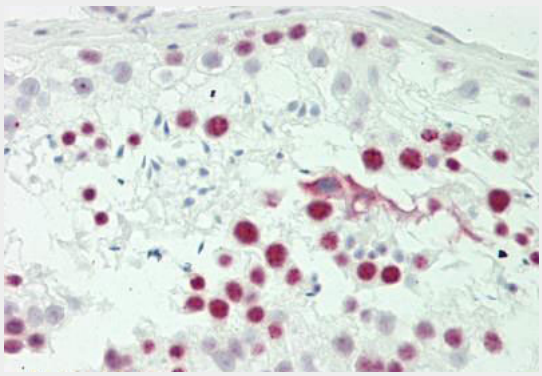
Tissue Location
Ubiquitous. The Ser-1180 phosphorylated form (by SRPK2) is highly expressed and phosphorylated in patients with myeloid hematologic malignancies

ACIN1 / Acinus Antibody (clone 3H8) - 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 (clone 3H8) - Images



Human Testis: Formalin-Fixed, Paraffin-Embedded (FFPE)

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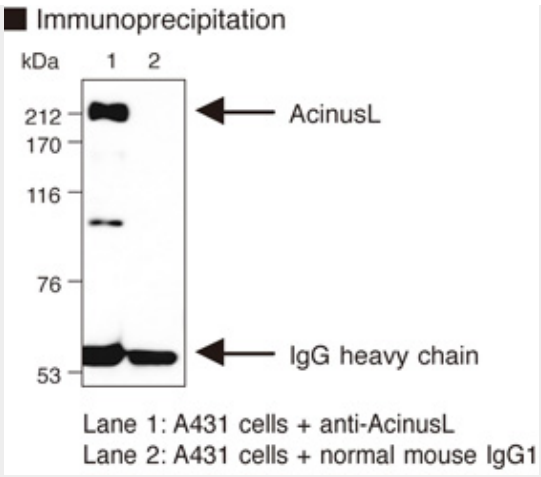

Lane1: A431 cells + anti-AcinusL; Lane2: A431 cells + normal mouse IgG1

ACIN1 / Acinus Antibody (clone 3H8) - 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 (clone 3H8) - References

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Heilig R.,et al.Nature 421:601-607(2003).
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