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SAP18 Rabbit pAb

Catalog # AP100264

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O00422
Other Accession	O00422
Reactivity	Rat, Mouse
Predicted	Pig, Human, Rabbit, Chicken, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	17561
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SAP18
Epitope Specificity	2-80/153
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the SAP18 family.
SUBUNIT	Found in a mRNA splicing-dependent exon junction complex (EJC). Component of the heterotrimeric ASAP (apoptosis- and splicing-associated protein) and PSAP complexes consisting of RNPS1, SAP18 and either ACIN1 or PNN, respectively; the ASAP and PSAP complexes probably are formed mutually exclusive. For the ASAP complex, the association of SAP18 seems to require a preformed RNPS1:ACIN1 complex. Forms a complex with SIN3A and HDAC1. Interacts with SUFU.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Additional Information

Gene ID	10284
Other Names	2HOR0202; SAP18P; C530046K05Rik; D11Ertd539e; EMegR4; Sap18a; Sinbp1; SAP18_BOVIN; SAP18; 18 kDa Sin3-associated polypeptide; Sin3-associated polypeptide p18; SAP18_HUMAN; Cell growth-inhibiting gene 38 protein; SAP18_MOUSE; Sin3A associated protein 18; sin3A-associated protein, 18kDa
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SAP18
Function	Component of the SIN3-repressing complex. Enhances the ability of SIN3-HDAC1-mediated transcriptional repression. When tethered to the promoter, it can direct the formation of a repressive complex to core histone proteins. 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 and PSAP 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. The ASAP complex can inhibit mRNA 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 the formation of proapoptotic isoforms such as Bcl-X(S); the activity is different from the established EJC assembly and function.
Cellular Location	Nucleus. Cytoplasm. Nucleus speckle. Note=Shuttles between the nucleus and the cytoplasm (PubMed:16314458). Colocalizes with ACIN1 and SRSF2 in nuclear speckles (PubMed:20966198).
Tissue Location	Ubiquitous.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.