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SAP18 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP14996c

Specification

SAP18 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	O00422
Other Accession	O55128, Q3T022, NP_005861.2
Reactivity	**Human**
Predicted	**Bovine, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**17561**
Antigen Region	**58-86**

SAP18 Antibody (Center) - Additional Information

Gene ID 10284

Other Names
Histone deacetylase complex subunit SAP18, 18 kDa Sin3-associated polypeptide, 2HOR0202, Cell growth-inhibiting gene 38 protein, Sin3-associated polypeptide p18, SAP18

Target/Specificity
This SAP18 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 58-86 amino acids from the Central region of human SAP18.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
SAP18 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

SAP18 Antibody (Center) - 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).

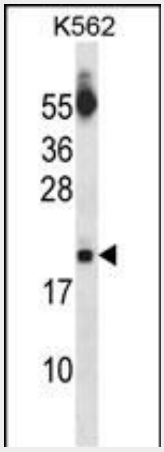
Tissue Location
Ubiquitous.

SAP18 Antibody (Center) - 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

SAP18 Antibody (Center) - Images



SAP18 Antibody (Center) (Cat. #AP14996c) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the SAP18 antibody detected the SAP18 protein (arrow).

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SAP18 Antibody (Center) - Background

Histone acetylation plays a key role in the regulation of eukaryotic gene expression. Histone acetylation and deacetylation are catalyzed by multisubunit complexes. The protein encoded by this gene is a component of the histone deacetylase complex, which includes SIN3, SAP30, HDAC1, HDAC2, RbAp46, RbAp48, and other polypeptides. This protein directly interacts with SIN3 and enhances SIN3-mediated transcriptional repression when tethered to the promoter. A pseudogene has been identified on chromosome 2.

SAP18 Antibody (Center) - References

Sorin, M., et al. PLoS Pathog. 5 (6), E1000463 (2009) :
McCallum, S.A., et al. Biochemistry 45(39):11974-11982(2006)
Joselin, A.P., et al. J. Biol. Chem. 281(18):12475-12484(2006)
Schwerk, C., et al. Mol. Cell. Biol. 23(8):2981-2990(2003)
Koipally, J., et al. EMBO J. 18(11):3090-3100(1999)