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SRCAP Rabbit pAb

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Catalog # AP54732

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q6ZRS2
Predicted	Rat, Pig, Dog, Human, Mouse, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	343555
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SRCAP
Epitope Specificity	665-780/3230
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nuclear
DISEASE	Defects in SRCAP are the cause of Floating-Harbor syndrome (FLHS) [MIM:136140]. A rare genetic disorder characterized by proportionate short stature, delayed bone age, delayed speech development, and typical facial features. The face is triangular with deep-set eyes, long eyelashes, bulbous nose, wide columella, short philtrum, and thin lips.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	SRCAP (Snf2-related CREBBP activator protein), also known as EAF1, SWR1, or DOMO1, is a 3,230 amino acid protein that belongs to a family of helicases and contains one HSA domain, one helicase C-terminal domain, one helicase ATP-binding domain and three A.T hook DNA-binding domains. Localized to the nucleus, SRCAP functions as a catalytic component of the SRCAP complex, a multi-protein structure that mediates the ATP-dependent exchange of histone dimers for nucleosomal histones, an event that regulates the transcription of select genes via chromatin remodeling. Additionally, the SRCAP complex acts as a coactivator for steroid receptor-mediated transcription, Notch-mediated transcription and CREB-mediated transcription. SRCAP is expressed as multiple alternatively spliced isoforms and is subject to DNA damage-dependent phosphorylation by ATM or ATR.

Additional Information

Gene ID	10847
Other Names	Chromatin remodeling protein SRCAP, 3.6.4.-, Domino homolog 2, Snf2-related CBP activator, SRCAP (HGNC:16974), KIAA0309
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500

	0-10000
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	SRCAP (HGNC:16974)
Synonyms	KIAA0309
Function	Acts both as a chromatin remodeler and transcription coregulator. Catalytic component of the SRCAP complex which mediates the ATP-dependent exchange of histone H2AZ/H2B dimers for nucleosomal H2A/H2B, leading to transcriptional regulation of selected genes expression through chromatin remodeling (PubMed:16634648, PubMed:17617668). Acts as a coactivator for CREB-mediated transcription, steroid receptor-mediated transcription, and Notch- mediated transcription (PubMed:10347196, PubMed:11522779, PubMed:14500758, PubMed:16024792).
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00549, ECO:0000269|PubMed:10702287}

Background

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