



Rabbit Anti-SRCAP antibody

SL12119R

Product Name:	SRCAP
Chinese Name:	转绿激活蛋白SRCAP抗体
Alias:	DOMO1; EAF1; Helicase SRCAP; Snf2 related CBP activator protein; SWR1; SRCAP_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	343kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SRCAP:665-780/3230
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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.

Function:

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 by chromatin remodeling. Acts as a coactivator for CREB-mediated transcription, steroid receptor-mediated transcription, and Notch-mediated transcription (from SwissProt).

Subunit:

Interacts with CREBBP and EP300. May be part of a complex containing SRCAP, CREBBP, CARM1 and GRIP1. Component of the chromatin-remodeling SRCAP complex composed of at least SRCAP, DMAP1, RUVBL1, RUVBL2, ACTL6A, YEATS4, VPS72, ACTR6 and ZNHIT1. Component of a NuA4-related complex which contains EP400, TRRAP/PAF400, SRCAP, BRD8/SMAP, EPC1, DMAP1/DNMAP1, RUVBL1/TIP49, RUVBL2, actin, ACTL6A/BAF53A, VPS72 and YEATS4/GAS41. Interacts with hepatitis C virus (HCV) NS5A and human adenovirus 2 DBP.

Subcellular Location:

Nuclear

Post-translational modifications:

Phosphorylated upon DNA damage, probably by ATM or ATR.

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.

Similarity:

Belongs to the SNF2/RAD54 helicase family. SWR1 subfamily.
Contains 3 A.T hook DNA-binding domains.
Contains 1 helicase ATP-binding domain.
Contains 1 helicase C-terminal domain.
Contains 1 HSA domain.

SWISS:

Q6ZRS2

Gene ID:

10847

Database links:

[Entrez Gene: 10847](#)Human

[Entrez Gene: 100043597](#)Mouse

[Entrez Gene: 361652](#)Rat

[Omim: 611421](#)Human

[SwissProt: Q6ZRS2](#)Human

[Unigene: 620916](#)Human

[Unigene: 428042](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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