

## 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.

**Research Area** Cell biology Neurobiology Signal transduction Epigenetics

**Immunogen Species** Rabbit

**Clonality** Polyclonal

**React Species** (predicted: Human, Mouse, Rat, Dog, Pig, Cow, Rabbit, Sheep, )  
IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000  
(Paraffin sections need antigen repair)  
**Applications** not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight** 343kDa

**Cellular localization** The nucleus

**Form** Liquid

**Concentration** 1mg/ml

**immunogen** KLH conjugated synthetic peptide derived from human SRCAP: 665-780/3230

**Lsotype** IgG

**Purification** affinity purified by Protein A

**Buffer Solution** 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

**Storage** Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

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

**PubMed** [PubMed](#)

**Product** SRCAP (Snf2-related CREBBP activator protein), also known as EAF1, SWR1, or DOMO1, is

## Detail

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

[Omin: 611421](#) Human

[SwissProt: Q6ZRS2](#) Human

[Unigene: 620916](#) Human

[Unigene: 428042](#) Mouse