



Rabbit Anti-SKA2 antibody

SL7847R

Product Name:	SKA2
Chinese Name:	纺锤体和着丝粒相关蛋白2抗体
Alias:	FAM33A; Family with sequence similarity 33, member A; FLJ12758; MGC110975; Protein FAM33A; SKA 2; SKA2; SKA2_HUMAN; Spindle and kinetochore associated complex subunit 2; Spindle and kinetochore associated protein 2; Spindle and kinetochore-associated protein 2; Spindle and KT (kinetochore) associated 2; Spindle and KT associated 2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=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:	14kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SKA2:2-88/121
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:	Ska2 (spindle and kinetochore associated complex subunit 2), also known as FAM33A, is a 121 amino acid component of the Ska1 complex, a microtubule-binding subcomplex of the outer kinetochore that is critical for proper chromosome segregation.

The Ska1 complex is a component of the kinetochore-microtubule interface and directly associates with microtubules as oligomeric assemblies. Localized to the outer kinetochore and spindle microtubules during cell proliferation, Ska2 is essential for spindle checkpoint silencing and exit from mitosis. Downregulation of Ska2 leads to delayed recruitment of MAD2, a component of the mitotic spindle checkpoint, to several kinetochores resulting in occasional loss of individual chromosomes from the metaphase plate. Ska2 is encoded by a gene located on human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes.

Function:

Component of the SKA1 complex, a microtubule-binding subcomplex of the outer kinetochore that is essential for proper chromosome segregation. Required for timely anaphase onset during mitosis, when chromosomes undergo bipolar attachment on spindle microtubules leading to silencing of the spindle checkpoint. The SKA1 complex is a direct component of the kinetochore-microtubule interface and directly associates with microtubules as oligomeric assemblies. The complex facilitates the processive movement of microtubules along a microtubule in a depolymerization-coupled manner. In the complex, it is required for SKA1 localization.

Subunit:

Component of the SKA1 complex, composed of SKA1, SKA2 and SKA3. Forms a heterodimer with SKA1; the heterodimer interacting with SKA3. The core SKA1 complex is composed of 2 SKA1-SKA2 heterodimers, each heterodimer interacting with a molecule of the SKA3 homodimer. The core SKA1 complex associates with microtubules and forms oligomeric assemblies. Interacts directly with SKA1. Binds directly to microtubules; but with a much lower affinity than SKA1. May interact with NR3C1; the relevance of such interaction remains unclear in vivo.

Subcellular Location:

Cytoplasm, cytoskeleton, spindle. Chromosome, centromere, kinetochore.
Note=Localizes to the outer kinetochore and spindle microtubules during mitosis in a NDC80 complex-dependent manner. Localizes to both the mitotic spindle and kinetochore-associated proteins.

Similarity:

Belongs to the SKA2 family.

SWISS:

Q8WVK7

Gene ID:

348235

Database links:

[Entrez Gene: 348235](#) Human

[Entrez Gene: 66140](#)Mouse

[Entrez Gene: 287598](#)Rat

[Entrez Gene: 691962](#)Rat

[SwissProt: Q8WVK7](#)Human

[SwissProt: Q9CR46](#)Mouse

[SwissProt: Q510J4](#)Rat

[Unigene: 463607](#)Human

[Unigene: 45008](#)Mouse

[Unigene: 203397](#)Rat

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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