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Rabbit Anti-SKA2/Cy5 Conjugated antibody

SL7847R-Cy5

Product Name	Anti-SKA2/Cy5
Chinese Name	Cy5 标记的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.
Research Area	Cell biology Cyclin Cell differentiation
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted:Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit)
Applications	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	14kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human SKA2
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% 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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**background:** 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-bindingsubcomplex of the outer kinetochore that is essential for properchromosome segregation. Required for timely anaphase onset duringmitosis, when chromosomes undergo bipolar attachment on spindlemicrotubules leading to silencing of the spindle checkpoint. TheSKA1 complex is a direct component of the kinetochore-microtubuleinterface and directly associates with microtubules as oligomericassemblies. The complex facilitates the processive movement ofmicrospheres along a microtubule in a depolymerization-coupledmanner. In the complex, it is required for SKA1 localization.

Subunit:
Component of the SKA1 complex, composed of SKA1, SKA2 andSKA3. Forms a heterodimer with SKA1; the heterodimer interactingwith SKA3. The core SKA1 complex is composed of 2 SKA1-SKA2heterodimers, each heterodimer interacting with a molecule of theSKA3 homodimer. The core SKA1 complex associates with microtubulesand forms oligomeric assemblies. Interacts directly with SKA1.Binds directly to microtubules; but with a much lower affinity thanSKA1. May interact with NR3C1; the relevance of such interactionremains unclear in vivo.

Subcellular Location:
Cytoplasm, cytoskeleton, spindle.Chromosome, centromere, kinetochore. Note=Localizes to the outerkinetochore and spindle microtubules during mitosis in a NDC80complex-dependent manner. Localizes to both the mitotic spindle andkinetochore-associated proteins.

Similarity:
Belongs to the SKA2 family.

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: Q5I0J4 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.