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SKA2 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58773

Specification

SKA2 Polyclonal Antibody - Product Information

Application	**IHC-P, IHC-F, IF, E**
Primary Accession	Q8WVK7
Reactivity	**Rat, Pig, Dog, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**14 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human SKA2**
Epitope Specificity	**2-88/121**
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	**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.**
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.**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
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.

SKA2 Polyclonal Antibody - Additional Information

Gene ID 348235

Other Names
Spindle and kinetochore-associated protein 2, Protein FAM33A, SKA2, FAM33A

Dilution
IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>E~~N/A

Storage
Store at -20 ℃ 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 ℃.

SKA2 Polyclonal Antibody - Protein Information

Name SKA2

Synonyms FAM33A

Function
Component of the SKA1 complex, a microtubule-binding subcomplex of the outer kinetochore that is essential for proper chromosome segregation (PubMed:17093495, PubMed:19289083, PubMed:23085020). Required for timely anaphase onset during mitosis, when chromosomes undergo bipolar attachment on spindle microtubules leading to silencing of the spindle checkpoint (PubMed:17093495). The SKA1 complex is a direct component of the kinetochore-microtubule interface and directly associates with microtubules as oligomeric assemblies (PubMed:19289083). The complex facilitates the processive movement of microspheres along a microtubule in a depolymerization-coupled manner (PubMed:17093495, PubMed:19289083). In the complex, it is required for SKA1 localization (PubMed:19289083). Affinity for microtubules is synergistically enhanced in the presence of the ndc-80 complex and may allow the ndc-80 complex to track depolymerizing microtubules (PubMed:23085020).

Cellular 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.

SKA2 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SKA2 Polyclonal Antibody - Images