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SKA2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12680a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q8WVK7
Other Accession	Q4R8E8, NP_872426.1
Reactivity	Human
Predicted	Monkey, Mouse, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB31468
Calculated MW	14188
Antigen Region	9-37

Additional Information

Gene ID	348235
Other Names	Spindle and kinetochore-associated protein 2, Protein FAM33A, SKA2, FAM33A
Target/Specificity	This SKA2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 9-37 amino acids from the N-terminal region of human SKA2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SKA2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

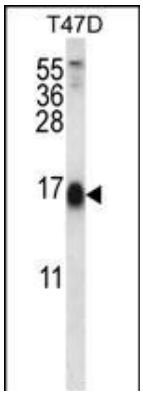
Background

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 microspheres along a microtubule in a depolymerization-coupled manner. In the complex, it is required for SKA1 localization.

References

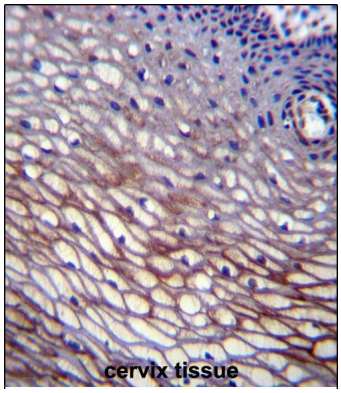
Cao, G., et al. Biochem. Biophys. Res. Commun. 396(4):978-982(2010)
Welburn, J.P., et al. Dev. Cell 16(3):374-385(2009)
Rice, L., et al. J. Endocrinol. 198(3):499-509(2008)
Lamesch, P., et al. Genomics 89(3):307-315(2007)
Hanisch, A., et al. EMBO J. 25(23):5504-5515(2006)

Images



SKA2 Antibody (N-term) (Cat. #AP12680a) western blot analysis in T47D cell line lysates (35ug/lane).This demonstrates the SKA2 antibody detected the SKA2 protein (arrow).

SKA2 Antibody (N-term) (Cat. #AP12680a)immunohistochemistry analysis in formalin fixed and paraffin embedded human cervix tissue followed by peroxidase conjugation of the secondary



antibody and DAB staining.This data demonstrates the use of SKA2 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.