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C13orf3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8979c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q8IX90
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23058
Calculated MW	46359
Antigen Region	226-253

Additional Information

Gene ID	221150
Other Names	Spindle and kinetochore-associated protein 3, SKA3, C13orf3, RAMA1
Target/Specificity	This C13orf3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 226-253 amino acids from the Central region of human C13orf3.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 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	C13orf3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SKA3
Synonyms	C13orf3, RAMA1
Function	Component of the SKA1 complex, a microtubule-binding subcomplex of the outer kinetochore that is essential for proper chromosome segregation

(PubMed:19289083, PubMed:19360002, PubMed:23085020). The SKA1 complex is a direct component of the kinetochore-microtubule interface and directly associates with microtubules as oligomeric assemblies (PubMed:19289083, PubMed:19360002). The complex facilitates the processive movement of microspheres along a microtubule in a depolymerization-coupled manner (PubMed:19289083). In the complex, it mediates the microtubule- stimulated oligomerization (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

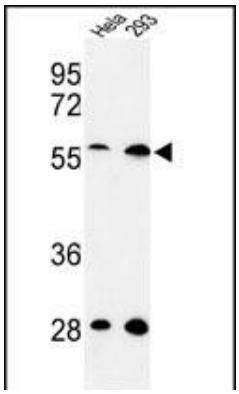
Background

Component of the SKA1 complex, a microtubule-binding subcomplex of the outer kinetochore that is essential for proper chromosome segregation. 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 mediates the microtubule-stimulated oligomerization.

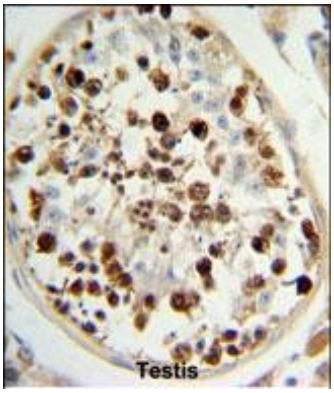
References

Rush,J., et.al., Nat. Biotechnol. 23 (1), 94-101 (2005)

Images

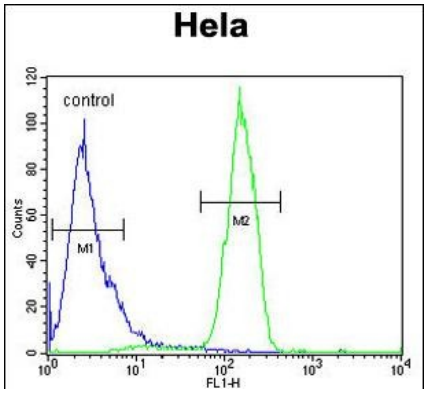


Western blot analysis of C13orf3 Antibody (Center) (Cat. #AP8979c) in Hela, 293 cell line lysates (35ug/lane). C13orf3 (arrow) was detected using the purified Pab.



C13orf3 Antibody (Center) (Cat. #AP8979c) IHC analysis in formalin fixed and paraffin embedded testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the C13orf3 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

C13orf3 Antibody (Center) (Cat. #AP8979c) flow cytometric analysis of Hela cells (right histogram)



compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.