10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Centromere protein K Rabbit pAb

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Catalog # AP59009

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9BS16
Predicted	Rat, Pig, Human, Mouse, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31655
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FKSG14/Centromere protein K
Epitope Specificity	51-150/269
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	Nuclear. Centromere. Kinetochore. Localizes exclusively in the centromeres. Note=Localizes exclusively in the centromeres. The CENPA-CAD complex is probably recruited on centromeres by the CENPA-NAC complex.
DISEASE	Note=Chromosomal aberrations involving CENPK are a cause of acute leukemias. Translocation t(5;11)(q12;q23) with MLL.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	FKSG14, also known as CENPK (centromere protein K) is a component of the CENPA-CAD (nucleosome distal) complex. It may be involved in incorporation of CENPA into centromeres and is required for proper kinetochore function, mitotic progression and chromosome segregation. May be involved in incorporation of newly synthesized CENPA into centromeres via its interaction with the CENPA-NAC complex. Acts in coordination with CASC5/KNL1 to recruit the NDC80 complex to the outer kinetochore. FKSG14 constitutively localized to centromeres throughout the cell cycle. There are 3 isoforms produced by alternative splicing.

Additional Information

Gene ID	64105
Other Names	Centromere protein K, CENP-K, Interphase centromere complex protein 37, Protein AF-5alpha, p33, CENPK, ICEN37
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C 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 °C.

Protein Information

Name	CENPK
Synonyms	ICEN37
Function	Component of the CENPA-CAD (nucleosome distal) complex, a complex recruited to centromeres which is involved in assembly of kinetochore proteins, mitotic progression and chromosome segregation. May be involved in incorporation of newly synthesized CENPA into centromeres via its interaction with the CENPA-NAC complex. Acts in coordination with KNL1 to recruit the NDC80 complex to the outer kinetochore.
Cellular Location	Nucleus. Chromosome, centromere. Chromosome, centromere, kinetochore. Note=Localizes exclusively in the centromeres The CENPA-CAD complex is probably recruited on centromeres by the CENPA-NAC complex
Tissue Location	Detected in several fetal organs with highest levels in fetal liver. In adults, it is weakly expressed in lung and placenta.

Background

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