

# Centromere protein K Rabbit pAb

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Catalog # AP59009

## Product Information

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<b>Application</b>	WB, IHC-P, IHC-F, IF, E
<b>Primary Accession</b>	<a href="#">Q9BS16</a>
<b>Predicted</b>	Human, Mouse, Rat, Pig, Horse, Sheep
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	31655
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human FKSG14/Centromere protein K
<b>Epitope Specificity</b>	51-150/269
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	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.
<b>SIMILARITY</b>	Belongs to the CENPK family.
<b>SUBUNIT</b>	Component of the CENPA-CAD complex, composed of CENPI, CENPK, CENPL, CENPO, CENPP, CENPQ, CENPR and CENPS. The CENPA-CAD complex interacts with the CENPA-NAC complex, at least composed of CENPA, CENPC, CENPH, CENPM, CENPN, CENPT and MLF1IP/CENPU. Interacts directly with CENPH. Note=Chromosomal aberrations involving CENPK are a cause of acute leukemias. Translocation t(5;11)(q12;q23) with MLL.
<b>DISEASE</b>	
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	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

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<b>Gene ID</b>	64105
<b>Other Names</b>	Centromere protein K, CENP-K, Interphase centromere complex protein 37, Protein AF-5Alpha, p33, CENPK, ICEN37

<b>Target/Specificity</b>	Detected in several fetal organs with highest levels in fetal liver. In adults, it is weakly expressed in lung and placenta.
<b>Dilution</b>	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
<b>Storage</b>	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

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<b>Name</b>	CENPK
<b>Synonyms</b>	ICEN37
<b>Function</b>	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.
<b>Cellular Location</b>	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
<b>Tissue Location</b>	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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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.

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