



Rabbit Anti-Centromere protein K antibody

SL8459R

Product Name:	Centromere protein K
Chinese Name:	着丝粒蛋白K/FKSG14抗体
Alias:	AF5 alpha; AF5alpha; B130045K24Rik; BB232189; C530004N04Rik; CENP K; CENPK; Centromere protein K; Centromeric protein K; FKSG 14; ICEN 37; ICEN37; Interphase centromere complex protein 37; Leucine zipper protein FKSG14; OTTHUMP00000161888; P33; Protein AF 5alpha; Protein AF5alpha; Solt; Solzt; SoxLZ/Sox6 binding protein Solt; SoxLZ/Sox6 leucine zipper binding protein; CENPK HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Horse,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	32kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human FKSG14/Centromere protein K:51-150/269
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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.

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 CASC5/KNL1 to recruit the NDC80 complex to the outer kinetochore.

Subunit:

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.

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.

Tissue Specificity:

Detected in several fetal organs with highest levels in fetal liver. In adults, it is weakly expressed in lung and placenta.

DISEASE:

Note=Chromosomal aberrations involving CENPK are a cause of acute leukemias. Translocation t(5;11)(q12;q23) with MLL.

Similarity:

Belongs to the CENPK family.

SWISS:

Q9BS16

Gene ID:

64105

Database links:

[Entrez Gene: 64105](#) Human

[Omid: 611502](#) Human

[SwissProt: Q9BS16](#) Human

[Unigene: 529778](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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