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

DEK Rabbit pAb

Catalog # AP99089

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	P35659
Other Accession	P35659
Predicted	Rat, Human, Mouse, Chicken, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42674
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DEK
Epitope Specificity	101-200/315
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 SAP domain.
SUBUNIT	Found in a mRNA splicing-dependent exon junction complex (EJC) with DEK, RBM8A, RNPS1, SRRM1 and ALYREF/THOC4. Interacts with histones H2A, H2B, H3, H4, acetylated histone H4, non-phosphorylated DAXX and HDAC2. Component of the B-WICH complex, at least composed of SMARCA5/SNF2H, BAZ1B/WSTF, SF3B1, DEK, MYO1C, ERCC6, MYBBP1A and DDX21. Binds DNA.
Post-translational modifications	Phosphorylated by CK2. Phosphorylation fluctuates during the cell cycle with a moderate peak during G(1) phase, and weakens the binding of DEK to DNA.
DISEASE	Note=A chromosomal aberration involving DEK is found in a subset of acute myeloid leukemia (AML); also known as acute non-lymphocytic leukemia. Translocation t(6;9)(p23;q34) with NUP214/CAN. It results in the formation of a DEK-CAN fusion gene.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The DEK gene encodes a protein with one SAP domain. This protein binds to cruciform and superhelical DNA which then induces positive supercoils into closed circular DNA, and is also involved during mRNA processing in splice site selection. Chromosomal aberrations involving this region, increased expression of this gene, and the presence of antibodies against this protein are all associated with various diseases. Two transcript variants encoding different isoforms have been found for this gene.

Additional Information

Gene ID	7913
Other Names	D6S231E; 1810019E15Rik; D13H6S231E; DEK_HUMAN; DEK; DEK_MOUSE; DEK_RAT; DEK proto-oncogene; DEK oncogene (DNA binding); DEK oncogene
	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000

Dilution	-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	DEK
Function	Involved in chromatin organization.
Cellular Location	Nucleus. Note=Enriched in regions where chromatin is decondensed or sparse in the interphase nuclei
Tissue Location	Ubiquitous. Expressed at relatively high levels.

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