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Rabbit Anti-DEK antibody

SL0874R

Product Name:	DEK
Chinese Name:	DEK癌基因Binding protein
Alias:	D6S231E; Dek; DEK gene; DEK oncogene; DEK oncogene DNA binding; DNA binding; DEK_HUMAN; OTTHUMP00000039357; Protein DEK.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	43kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human DEK:101-200/315
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:	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.

Function:
Involved in chromatin organization.

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.

Subcellular Location:
Nucleus. Note=Enriched in regions where chromatin is decondensed or sparse in the interphase nuclei.

Tissue Specificity:
Ubiquitous. Expressed at relatively high levels.

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.

Similarity:
Contains 1 SAP domain.

SWISS:
P35659

Gene ID:
7913

Database links:

Entrez Gene: 7913Human

Entrez Gene: 110052Mouse

Entrez Gene: 306817Rat

Omim: 125264Human

SwissProt: P35659Human

	SwissProt: Q7TNV0Mouse SwissProt: Q6AXS3Rat Unigene: 484813Human Unigene: 131150Mouse Unigene: 25099Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. DEK癌基因Binding protein，主要参与DNA核转录。目前多用于白血病及急性髓系白血病的研究。