

Rabbit Anti-DEK/PE Conjugated antibody

SL0874R-PE

Product Name	Anti-DEK/PE
Chinese Name	PE 标记的 DEK 癌基因 Binding protein
Alias	D6S231E; Dek; DEK gene; DEK oncogene; DEK oncogene DNA binding; DNA binding; DEK_HUMAN; OTTHUMP00000039357; Protein DEK.
Research Area	Chromatin and nuclear signals transcriptional regulatory factor Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted:Human,Mouse,Rat,Chicken,Dog,Cow) IF=1:100-500
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	43kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human DEK
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. 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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Storage	
Product Detail	background: 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.

Database links:

[Entrez Gene: 7913](#) Human

[Entrez Gene: 110052](#) Mouse

[Entrez Gene: 306817](#) Rat

[Omim: 125264](#) Human

[SwissProt: P35659](#) Human

[SwissProt: Q7TNV0](#) Mouse

[SwissProt: Q6AXS3](#) Rat

[Unigene: 484813](#) Human

[Unigene: 131150](#) Mouse

[Unigene: 25099](#) Rat

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。