

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.

Research Area Chromatin and nuclear signals transcriptional regulatory factor Epigenetics

Immunogen Species Rabbit

Clonality Polyclonal

React Species (predicted: Human, Mouse, Rat, Chicken, Dog, Cow,)

WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Applications (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 43kDa

Cellular localization The nucleus

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human DEK: 101-200/315

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

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

PubMed [PubMed](#)

Product The DEK gene encodes a protein with one SAP domain. This protein binds to cruciform and

Detail

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: 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

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。