

DEK (H-300): sc-30213

BACKGROUND

The mammalian protein DEK is implicated in multiple cellular processes, including transcriptional regulation, mRNA processing and chromatin remodeling, and is associated with a number of clinical autoimmune and neoplastic conditions. DEK, an abundant chromatin-associated protein, changes the topology of DNA in chromatin *in vitro*. Although first identified in a fusion with the CAN/Nup214 nucleoporin protein in a specific subtype of acute myelogenous leukemia, DEK is also an autoantigen in patients with Pauciarticular onset juvenile rheumatoid arthritis. Furthermore, the last 65 amino acids of DEK can partially reverse the mutation-prone phenotype of cells from patients with ataxia telangiectasia. The human DEK gene maps to chromosome 6p22.3.

REFERENCES

1. Fu, G.K., et al. 1997. DEK, an autoantigen involved in a chromosomal translocation in acute myelogenous leukemia, binds to the HIV-2 enhancer. *Proc. Natl. Acad. Sci. USA* 94: 1811-1815.
2. McGarvey, T., et al. 2000. The acute myeloid leukemia-associated protein, DEK, forms a splicing-dependent interaction with exon-product complexes. *J. Cell Biol.* 150: 309-320.

CHROMOSOMAL LOCATION

Genetic locus: DEK (human) mapping to 6p22.3; Dek (mouse) mapping to 13 A5.

SOURCE

DEK (H-300) is a rabbit polyclonal antibody raised against amino acids 76-225 mapping within an internal region of DEK of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

DEK (H-300) is recommended for detection of DEK of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

DEK (H-300) is also recommended for detection of DEK in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for DEK siRNA (h): sc-38253, DEK siRNA (m): sc-44982, DEK shRNA Plasmid (h): sc-38253-SH, DEK shRNA Plasmid (m): sc-44982-SH, DEK shRNA (h) Lentiviral Particles: sc-38253-V and DEK shRNA (m) Lentiviral Particles: sc-44982-V.

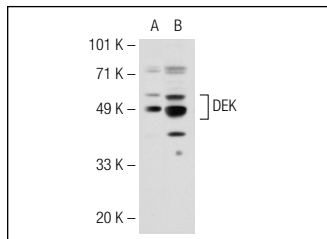
Molecular Weight of DEK: 43-45 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, HeLa whole cell lysate: sc-2200 or K-562 nuclear extract: sc-2130.

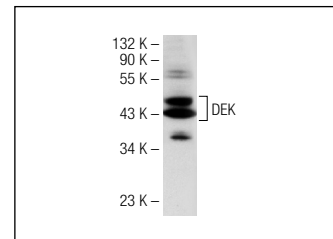
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



DEK (H-300): sc-30213. Western blot analysis of DEK expression in 293T (A) and HeLa (B) whole cell lysates.



DEK (H-300): sc-30213. Western blot analysis of DEK expression in K-562 nuclear extract.

SELECT PRODUCT CITATIONS

1. Lin, A., et al. 2008. The EBNA1 protein of Epstein-Barr virus functionally interacts with Brd4. *J. Virol.* 82: 12009-12019.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **DEK (2): sc-136222**, our highly recommended monoclonal alternative to DEK (H-300).