Human DEK Antibody

Monoclonal Mouse IgG_{2B} Clone # 715524

Catalog Number: MAB7020

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human DEK in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG_{2B} Clone # 715524
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human embryonic kidney cell line HEK293EBNA-derived recombinant human DEK Ser2-Ser375 Accession # P35659
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

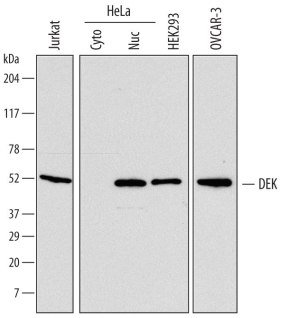
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

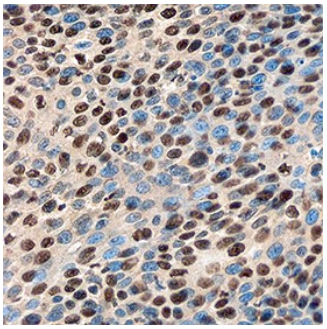
DATA

Western Blot



Detection of Human DEK by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line, HeLa human cervical epithelial carcinoma cell line, HEK293 human embryonic kidney cell line, and OVCAR-3 human ovarian carcinoma cell line. Gels were loaded with 30 µg of cytoplasmic (Cyto) and 30 µg of nuclear extracts (Nuc). PVDF membrane was probed with 0.5 µg/mL of Mouse Anti-Human DEK Monoclonal Antibody (Catalog # MAB7020) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for DEK at approximately 50 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



DEK in Human Cervical Cancer Tissue. DEK was detected in immersion fixed paraffin-embedded sections of human cervical cancer tissue using Mouse Anti-Human DEK Monoclonal Antibody (Catalog # MAB7020) at 5 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to nuclei. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

The DEK oncogene is an approximately 45 kDa phosphoprotein with pleiotropic activities. It is a chromatin remodeling factor, a transcriptional coactivator and corepressor, a component of RNA spliceosomes, and a promoter of DNA repair during apoptosis. DEK is upregulated in many cancers and promotes epithelial cell transformation. It functions as a proinflammatory factor when secreted by activated macrophages. It is an autoantigen in juvenile arthritis and lupus and a target of chromosomal translocation with the CAN gene in acute myelogenous leukemia. DEK contains one SAP domain (aa 149-183), one nuclear localization sequence (aa 205-221), and a DNA-binding C-terminal domain (aa 321-375). Within aa 292-375, human DEK shares 95% aa sequence identity with mouse and rat DEK.

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