

Datasheet for ABIN5693016
anti-DCK antibody (AA 17-260)



[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	DCK
Binding Specificity:	AA 17-260
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DCK antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-DCK Antibody Picoband®
Immunogen:	E. coli-derived human DCK recombinant protein (Position: E17-L260).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-DCK Antibody Picoband® (ABIN5693016). Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Target Details

Target:	DCK
Alternative Name:	DCK (DCK Products)
Background:	Synonyms: Deoxycytidine kinase, dCK, DCK, Tissue Specificity: Expressed in kidney, skeletal muscles, liver, lung, breast, intestine, placenta and skin mainly in epithelial cells (at protein level). Background: Deoxycytidine kinase (dCK) is an enzyme which is encoded by the DCK gene in humans. Deoxycytidine kinase (DCK) is required for the phosphorylation of several deoxyribonucleosides and their nucleoside analogs. Deficiency of DCK is associated with resistance to antiviral and anticancer chemotherapeutic agents. Conversely, increased deoxycytidine kinase activity is associated with increased activation of these compounds to cytotoxic nucleoside triphosphate derivatives. DCK is clinically important because of its relationship to drug resistance and sensitivity.
Molecular Weight:	30 kDa
Gene ID:	1633
UniProt:	P27707

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/mL Flow Cytometry(Fixed), 1-3 µg/1x10⁶ cells ELISA, 0.1-0.5 µg/mL 1. Chottiner, E. G., Shewach, D. S., Datta, N. S., Ashcraft, E., Gribbin, D., Ginsburg, D., Fox, I. H., Mitchell, B. S. Cloning and expression of human deoxycytidine kinase cDNA. Proc. Nat. Acad. Sci. 88: 1531-1535, 1991. 2. Stegmann, A. P. A., Honders, M. W., Bolk, M. W. J., Wessels, J., Willemze, R., Landegent, J. E. Assignment of the human deoxycytidine kinase (DCK) gene to chromosome 4 band q13.3-q21.1. Genomics 17: 528-529, 1993.
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Restrictions:	For Research Use only
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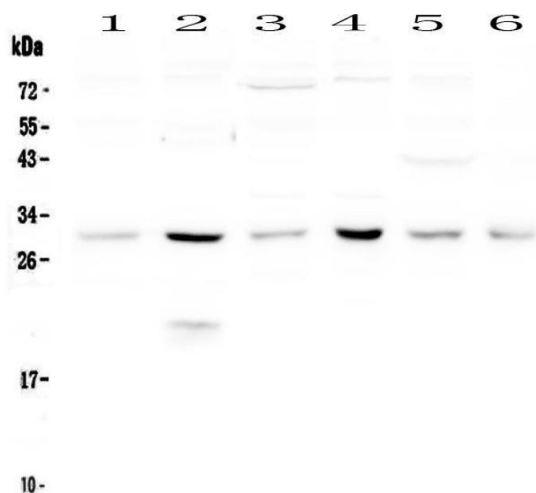
Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL

Handling

Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1. Western blot analysis of DCK using anti-DCK antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: mouse spleen tissue lysates, Lane 2: mouse thymus tissue lysates, Lane 3: human Hela whole cell lysates, Lane 4: human U-87MG whole cell lysates, Lane 5: human MCF-7 whole cell lysates, Lane 6: human U20S whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-DCK antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for DCK at approximately 30KD. The expected band size for DCK is at 30KD.