



## Rabbit Anti-DCK antibody

SL5749R

|                               |   |
|-------------------------------|---|
| <b>Product Name:</b>          | DCK   |
| <b>Chinese Name:</b>          | 脱氧胞苷激酶抗体  |
| <b>Alias:</b>                 | DCK; dCK; DCK protein; DCK_HUMAN; Deoxycytidine kinase; EC 2.7.1; EC 2.7.1.74; MGC117410; MGC138632; OTTHUMP00000219118; OTTHUMP00000219119.  |
| <b>Organism Species:</b>      | Rabbit  |
| <b>Clonality:</b>             | Polyclonal  |
| <b>React Species:</b>         | Human,Mouse,Rat,Pig,Horse,  |
| <b>Applications:</b>          | ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair)<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user.   |
| <b>Molecular weight:</b>      | 31kDa   |
| <b>Cellular localization:</b> | The nucleus   |
| <b>Form:</b>                  | Lyophilized or Liquid   |
| <b>Concentration:</b>         | 1mg/ml  |
| <b>immunogen:</b>             | KLH conjugated synthetic peptide derived from human DCK:181-260/260   |
| <b>Lsotype:</b>               | IgG   |
| <b>Purification:</b>          | affinity purified by Protein A  |
| <b>Storage Buffer:</b>        | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.  |
| <b>Storage:</b>               | 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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.   |
| <b>PubMed:</b>                | <a href="#">PubMed</a>  |
| <b>Product Detail:</b>        | Deoxycytidine kinase is responsible for the phosphorylation of several deoxyribonucleosides and their analogs. Deficiency of this enzyme activity is associated with resistance to antiviral and anticancer chemotherapeutic agents, whereas increased enzyme activity is associated with increased activation of these compounds to cytotoxic nucleoside triphosphate derivatives. It is the rate limiting enzyme in the |

activation of many important anticancer and retroviral drugs and its activity is often decreased in cells that are resistant to cytosine arabinoside.

**Function:**

Required for the phosphorylation of the deoxyribonucleosides deoxycytidine (dC), deoxyguanosine (dG) and deoxyadenosine (dA). Has broad substrate specificity, and does not display selectivity based on the chirality of the substrate. It is also an essential enzyme for the phosphorylation of numerous nucleoside analogs widely employed as antiviral and chemotherapeutic agents.

**Subunit:**

Homodimer.

**Subcellular Location:**

Nucleus.

**Post-translational modifications:**

Phosphorylated and activated in vitro upon phosphorylation at Ser-74 by CSNK1D/CK1.

**Similarity:**

Belongs to the DCK/DGK family.

**SWISS:**

P27707

**Gene ID:**

1633

**Database links:**

[Entrez Gene: 1633](#)Human

[Entrez Gene: 13178](#)Mouse

[Entrez Gene: 79127](#)Rat

[Oimim: 125450](#)Human

[SwissProt: Q3MHR2](#)Cow

[SwissProt: P27707](#)Human

[SwissProt: P43346](#)Mouse

[SwissProt: P48769](#)Rat

[Unigene: 709](#)Human

[Unigene: 298892](#)Mouse

[Unigene: 10058](#)Rat

**Important Note:**

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

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