10320 Camino Santa Fe, Suite G
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DCK / Deoxycytidine kinase Antibody
Rabbit Polyclonal Antibody
Catalog # ALS17078

Specification

DCK / Deoxycytidine kinase Antibody - Product Information

Application	**IHC, IF, WB**
Primary Accession	P27707
Other Accession	1633
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**30519**

DCK / Deoxycytidine kinase Antibody - Additional Information

Gene ID 1633

Other Names
DCK, Deoxynucleoside kinase, Deoxycytidine kinase

Target/Specificity
Human DCK / Deoxycytidine kinase

Reconstitution & Storage
PBS, pH 7.3, 0.02% sodium azide, 50% glycerol. Long term: -80°C; Short term: -20°C. Avoid freeze-thaw cycles.

Precautions
DCK / Deoxycytidine kinase Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

DCK / Deoxycytidine kinase Antibody - Protein Information

Name DCK

Function
Phosphorylates the deoxyribonucleosides deoxycytidine, deoxyguanosine and deoxyadenosine (PubMed:1996353, PubMed:12808445, PubMed:18377927, PubMed:19159229, PubMed:20614893, PubMed:20637175). 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 (PubMed:<a

href="http://www.uniprot.org/citations/12808445" target="_blank">12808445).

Cellular Location
Nucleus.

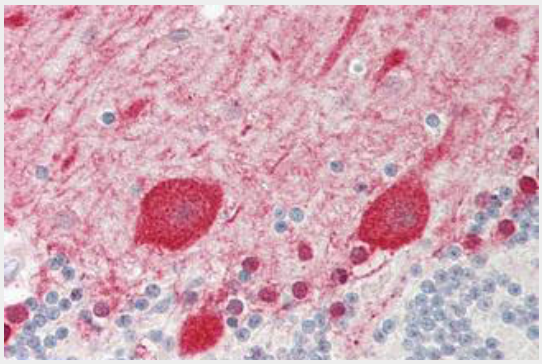
Volume
50 µl

DCK / Deoxycytidine kinase Antibody - Protocols

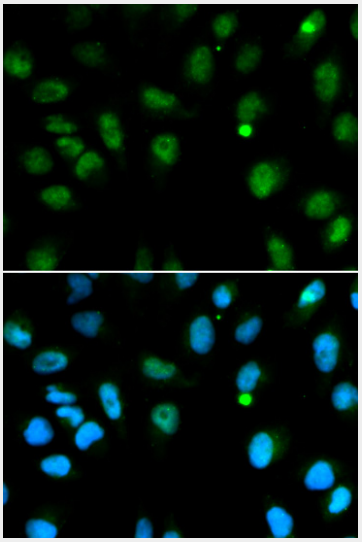
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DCK / Deoxycytidine kinase Antibody - Images

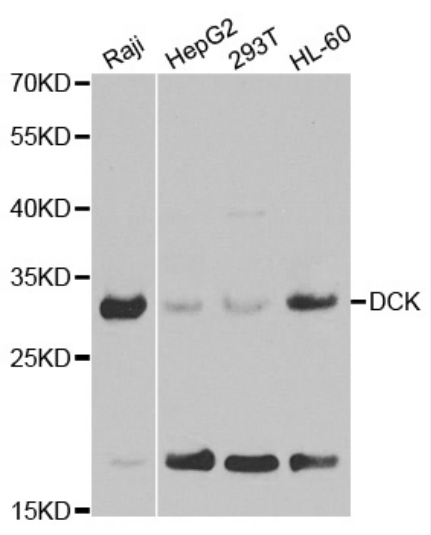


Human Brain, Cerebellum: Formalin-Fixed, Paraffin-Embedded (FFPE)



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Immunofluorescence analysis of MCF7 cell using DCK antibody. Blue: DAPI for nuclear staining.



Western blot analysis of extracts of various cell lines, using DCK antibody.

DCK / Deoxycytidine kinase Antibody - Background

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.

DCK / Deoxycytidine kinase Antibody - References

Chottiner E.G.,et al.Proc. Natl. Acad. Sci. U.S.A. 88:1531-1535(1991).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Halleck A.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.