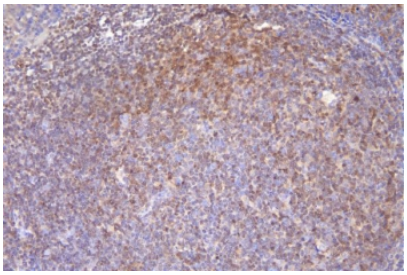
DCK Antibody [clone 3G10] (RQ5558)

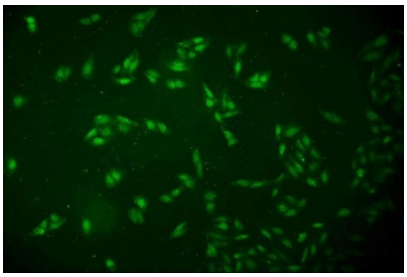
Catalog No.	Formulation	Size
RQ5558	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

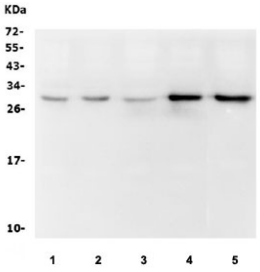
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	3G10
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P27707
Localization	Nuclear, cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml Flow Cytometry : 1-3ug/million cells Immunofluorescence : 5ug/ml
Limitations	This DCK antibody is available for research use only.



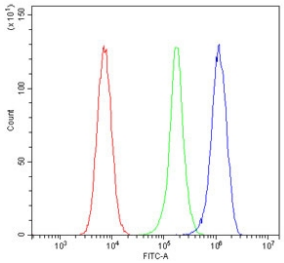
IHC staining of FFPE human tonsil with DCK antibody. HIER: boil tissue sections in pH8 EDTA buffer, for 20 min and allow to cool before testing.



Immunofluorescent staining of human U-2 OS cells with DCK antibody. HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) HEK293, 2) HeLa, 3) HepG2, 4) Jurkat and 5) Raji cell lysate with DCK antibody. Predicted molecular weight ~30 kDa.



Flow cytometry testing of human 293T cells with DCK antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= DCK antibody.

Description

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.

Application Notes

Optimal dilution of the DCK antibody should be determined by the researcher.

Immunogen

A human recombinant protein (amino acids E17-L260) was used as the immunogen for the DCK antibody.

Storage

After reconstitution, the DCK antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.