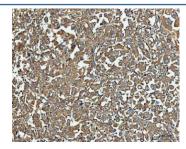


# NT5C Antibody / dNT-1 (RQ8409)

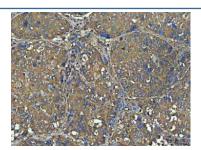
Catalog No.	Formulation	Size
RQ8409	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

## **Bulk quote request**

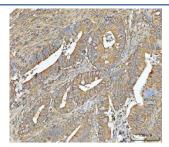
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q8TCD5
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This NT5C antibody is available for research use only.



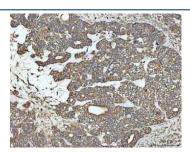
IHC staining of FFPE human lung cancer tissue with NT5C antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



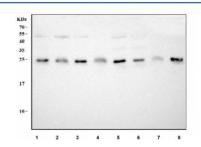
IHC staining of FFPE human liver cancer tissue with NT5C antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



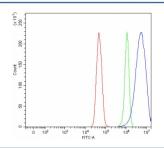
IHC staining of FFPE human colorectal adenocarcinoma tissue with NT5C antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human ovarian cancer tissue with NT5C antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) RT4, 2) U-251, 3) 293T, 4) HL60, 5) HepG2, 6) A549, 7) U-2 OS and 8) SH-SY5Y cell lysate with NT5C antibody. Predicted molecular weight ~23 kDa.



Flow cytometry testing of fixed and permeabilized human U-251 cells with NT5C antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= NT5C antibody.

### **Description**

5', 3'-nucleotidase, cytosolic, also known as 5'(3')-deoxyribonucleotidase, cytosolic type (cdN) or deoxy-5'-nucleotidase 1 (dNT-1), is an enzyme that in humans is encoded by the NT5C gene on chromosome 17. This gene encodes a nucleotidase that catalyzes the dephosphorylation of the 5' deoxyribonucleotides (dNTP) and 2'(3')-dNTP and ribonucleotides, but not 5' ribonucleotides. Of the different forms of nucleotidases characterized, this enzyme is unique in its preference for 5'-dNTP. It may be one of the enzymes involved in regulating the size of dNTP pools in cells. Alternatively spliced transcript variants have been found for this gene.

# **Application Notes**

Optimal dilution of the NT5C antibody should be determined by the researcher.

### **Immunogen**

An E.coli-derived human recombinant protein (H35-R179) was used as the immunogen for the NT5C antibody.

### **Storage**

After reconstitution, the NT5C antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.