

dTMP Kinase Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP02747
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	The antiserum was produced against synthesized peptide derived from human DTYMK. AA range:1-50
Mol wt	23819
Species reactivity	Human
Clonality	Polyclonal
Recommended application	WB, IHC-p, ELISA
Concentration	1 mg/ml
Full name	dTMP Kinase Antibody
Synonyms	DTYMK; CDC8; TMPK; TYMK; Thymidylate kinase; dTMP kinase

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

Thymidylate kinase (DTYMK) catalyzes the phosphorylation of dTMP to form dTDP in the dTTP synthesis pathway for DNA synthesis. DTYMK is essential for DNA synthesis and is an important intermediate enzyme in the pathway of many pyrimidine analog drugs, including 5-Fluorouracil (5-FU), the chemotherapeutic drug of choice for several solid tumors. The human DTYMK gene was isolated via functional complementation of a *Saccharomyces cerevisiae* cell cycle mutant, *cdc8*. DTYMK mRNA levels and enzyme activities are regulated at the level of cell cycle and cell growth pathways.

Recommended Dilution

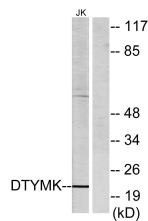
WB: 1: 500 - 1: 2000

IHC: 1: 100 - 1: 300

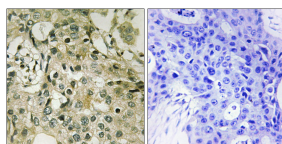
ELISA: 1: 20000

Not yet tested in other applications.

Images



Western blot analysis of lysates from Jurkat cells, using DTYMK Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using DTYMK Antibody. The picture on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using dTMP Kinase Polyclonal Antibody diluted at 1:500

Storage

-20°C for one year

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