



Rabbit Anti-Human TK1 Polyclonal Antibody (CABT-Z731R)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	A synthesized peptide derived from human TK1, corresponding to a region within N-terminal amino acids.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purification	Antigen affinity purified
Conjugate	Unconjugated
Applications	WB, IHC-P, ICC/IF Recommended dilution: WB: 1:500-1:2000 IHC-P: 1:50-1:200 ICC/IF: 1:100-1:500
Format	Liquid
Concentration	Lot specific
Size	100 µl
Buffer	PBS, pH 7.4, with 50% glycerol, 150mM NaCl
Preservative	0.02% sodium azide
Storage	Store at -20 °C.

BACKGROUND

Introduction

Thymidine Kinase (TK1) is a highly conserved phosphotransferase that is present in most living cells. Thymidine Kinase catalyzes the phosphorylation reaction: deoxythymidine + ATP = deoxythymidine 5'-phosphate + ADP; it is thus involved in the reaction chain to introduce deoxythymidine into the DNA. Thymidine kinase is required for the action of many antiviral drugs, such as azidothymidine (AZT), and is also used to select hybridoma cell lines in the production of monoclonal antibodies. Thymidine Kinase has many clinical applications as it is only present in anticipation of cell division.

Keywords

thymidine kinase 1, soluble;EC 2.7.1.21;TK2;Thymidine kinase 1 soluble isoform;thymidine kinase, cytosolic;thymidine kinase-1

GENE INFORMATION

Gene Name

TK1

Entrez Gene ID

[7083](#)

UniProt ID

[P04183](#)
