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Datasheet for ABIN1882141  
**anti-TK2 antibody (N-Term)**

1 Image

Overview

Quantity:	400 µL
Target:	TK2
Binding Specificity:	AA 8-38, N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TK2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This Thymidine Kinase 2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 8-38 amino acids from the N-terminal region of human Thymidine Kinase 2.
Clone:	RB5434
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	TK2
Abstract:	<a href="#">TK2 Products</a>

## Target Details

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Background:	Thymidine kinase-2 (TK2) is a deoxyribonucleoside kinase that phosphorylates thymidine, deoxycytidine, and deoxyuridine, and also phosphorylates antiviral and anticancer nucleoside analogs. Both recombinant and native forms of the enzyme have broad substrate specificity and complex kinetics, suggesting that it may play a role in the activation of chemotherapeutic nucleoside analogs. The highest levels of expression are observed in testis and ovary. The main supply of deoxyribonucleotides (dNTPs) for mitochondrial DNA synthesis comes from the salvage pathway initiated by deoxyguanosine kinase (DGK) and TK2. The association of mitochondrial DNA depletion with mutations in the genes encoding these 2 kinases suggests that the salvage pathway enzymes are involved in the maintenance of balanced mitochondrial dNTP pools.
Molecular Weight:	31005
NCBI Accession:	<a href="#">NP_001166114</a> , <a href="#">NP_001166115</a> , <a href="#">NP_001258864</a> , <a href="#">NP_004605</a>
UniProt:	<a href="#">O00142</a>
Pathways:	<a href="#">Mitotic G1-G1/S Phases</a>

## Application Details

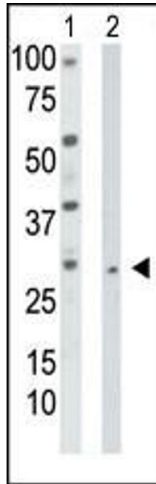
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Application Notes:	WB: 1:1000
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Expiry Date:	6 months



### Western Blotting

**Image 1.** The anti-TK2 Pab (ABIN1882141 and ABIN2841224) is used in Western blot to detect TK2 in HepG2 cell lysate (Lane 1) and mouse liver tissue lysate (Lane 2).