TK2 polyclonal antibody

Catalog # PAB4599 Size 400 uL

Applications



Western Blot (Tissue lysate)

The TK2 polyclonal antibody (Cat # PAB4599) is used in Western blot to detect TK2 in mouse liver tissue lysate .

Western Blot (Cell lysate)

The TK2 polyclonal antibody (Cat # PAB4599) is used in Western blot to detect TK2 in HepG2 cell lysate .

Specification	
Product Description	Rabbit polyclonal antibody raised against synthetic peptide of TK2.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human TK2.
Host	Rabbit
Reactivity	Human, Mouse
Form	Liquid
Purification	Protein G purification



Product Information

Recommend Usage	ELISA (1:1000) Western Blot (1:100-500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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• Western Blot (Cell lysate)

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Enzyme-linked Immunoabsorbent Assay

Gene Info — TK2

Entrez GenelD	<u>7084</u>
Protein Accession#	<u>000142</u>
Gene Name	TK2
Gene Alias	-
Gene Description	thymidine kinase 2, mitochondrial
Omim ID	<u>188250 251880</u>
Gene Ontology	<u>Hyperlink</u>



Product Information

Gene Summary

The mitochondrial deoxyribonucleotide (dNTP) pool is separated from the cytosolic pool because the mitochondria inner membrane is impermeable to charged molecules. The mitochondrial pool is smaintained by either import of cytosolic dNTPs through dedicated transporters or by salvaging d eoxynucleosides within the mitochondria; apparently, enzymes of the de novo dNTP synthesis pat hway are not present in the mitochondria. In nonreplicating cells, where cytosolic dNTP synthesis is s downregulated, mtDNA synthesis depends solely on the mitochondrial salvage pathway enzyme s, the deoxyribonucleoside kinases. Two of the 4 human deoxyribonucleoside kinases, deoxygua nosine kinase (DGK) and thymidine kinase-2, are expressed in mitochondria. Human DGK, enco ded by the DGUOK gene (MIM 601465), efficiently phosphorylates deoxyguanosine and deoxyad enosine, whereas TK2 phosphorylates deoxythymidine, deoxycytidine, and deoxyuridine. Thymidi ne kinase-2 (TK2) is a deoxyribonucleoside kinase antiviral and anticancer nucleoside analogs.[supplied by OMIM

Other Designations

Pathway

- Drug metabolism other enzymes
- Metabolic pathways
- Pyrimidine metabolism