

## Allgemeine Informationen

<b>Katalog-Nr.:</b> 16314-1-AP	<b>GenBank-Zugangsnummer:</b> BC015757	<b>Reinigungsmethode:</b> Antigen-Affinitätsreinigung
<b>Größe:</b> 150ul , Konzentration: 180 µg/ml durch die Bradford-Methode mit BSA als Standard;	<b>GeneID (NCBI):</b> 1716	<b>Empfohlene Verdünnungen:</b> WB 1:500-1:1000 IHC 1:20-1:200
<b>Wirt:</b> Kaninchen	<b>Vollständiger Name:</b> deoxyguanosine kinase	
<b>Isotyp:</b> IgG	<b>Berechnete Masse:</b> 277 aa, 32 kDa	
<b>Immunogen Katalognummer:</b> AG9361	<b>Beobachtete Masse:</b> 28-32 kDa, 56-64 kDa	

## Anwendungen

<b>Geprüfte Anwendungen:</b> IHC, WB,ELISA	<b>Positivkontrollen:</b> WB : Mausnierengewebe, IHC : humanes Leberzirrhosegewebe,
<b>Getestete Reaktivität:</b> Human, Maus, Ratte	
<b>Hinweis-IHC: Antigenmaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigenmaskierung auch mit Citratpuffer pH 6,0 erfolgen.</b>	

## Hintergrundinformationen

Deoxyguanosine kinase (dGK) deficiency is a frequent cause of mitochondrial DNA depletion associated with a hepatocerebral phenotype. dGK is a member of the deoxyribonucleoside kinase family involved in phosphorylation of deoxyribonucleosides. In mammals, there are four deoxyribonucleoside kinases with overlapping specificities: two cytoplasmic enzymes, thymidine kinase 1 (TK1) and deoxycytidine kinase (dCK), and two mitochondrial enzymes, thymidine kinase 2 (TK2) and deoxyguanosine kinase (dGK). The human dGK protein is highly specific for purine substrates. Human dGK is a dimer of two identical subunits of 30 kDa. The three-dimensional structure of the human dGK monomer has been reported, providing an explanation for the substrate specificity of the enzyme. (PMID: 29786478, PMID: 11427893, PMID: 17073823)

## Lagerung

**Lagerungsbedingungen:**  
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil  
**Lagerungspuffer:**  
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.  
**Aliquotieren ist nicht notwendig bei -20°C Lagerung**

**\*\*\* 20ul-Größen enthalten 0.1% BSA**

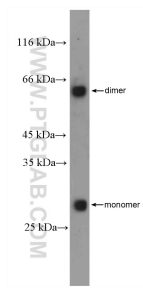
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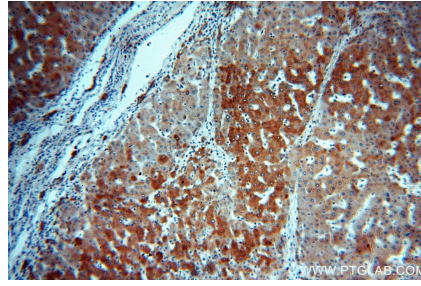
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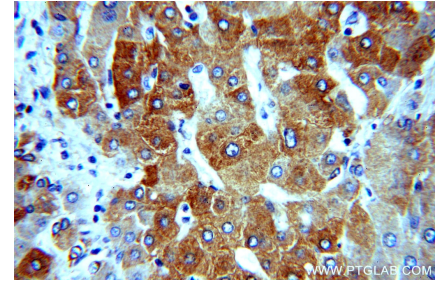
## Ausgewählte Validierungsdaten



mouse kidney tissue were subjected to SDS PAGE followed by western blot with 16314-1-AP (dGK antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human hepatocirrhosis using 16314-1-AP (dGK antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human hepatocirrhosis using 16314-1-AP (dGK antibody) at dilution of 1:100 (under 40x lens).