For Research Use Only

dGK Polyclonal antibody Catalog Number:16314-1-AP

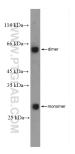


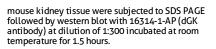
Basic Information	Catalog Number: 16314-1-AP	GenBank Accession Number: BC015757	Purification Method: Antigen affinity purification
	Size: 150ul, Concentration: 180 ug/ml by Bradford method using BSA as the standard; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG9361	GenelD (NCBI): 1716	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500
		UNIPROT ID: Q16854	
		Full Name: deoxyguanosine kinase Calculated MW: 277 aa, 32 kDa	
		Applications	Tested Applications:
WB, IHC, ELISA Species Specificity: human, mouse			
Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	vely, antigen		
Background Information	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)		
Storage	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50	·	
	Aliquoting is unnecessary for -20°C s		

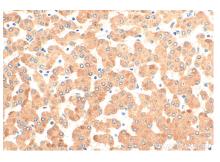
For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

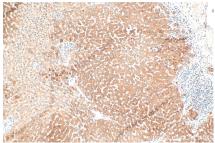
Selected Validation Data



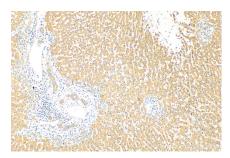




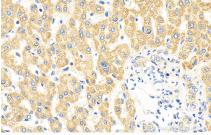
Immunohistochemical analysis of paraffinembedded human hepatocirrhosis tissue slide using 16314-1-AP (dGK antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human hepatocirrhosis tissue slide using 16314-1-AP (dGK antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human hepatocirrhosis tissue slide using 16314-1-AP (dGK antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human hepatocirrhosis tissue slide using 16314-1-AP (dGK antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).