For Research Use Only

LDHD Polyclonal antibody

Catalog Number:14398-1-AP 2 Publications



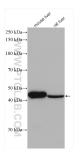
Basic Information	Catalog Number: 14398-1-AP	GenBank Accession Number: BC047902		Purification Method: Antigen affinity purification	
	Size:	550 µg/ml 197257 Gource: UNIPROT ID:		Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500 IF/ICC 1:20-1:200	
	350 µg/ml				
	Source: Rabbit				
	lsotype: IgG	Full Name: lactate dehydrogena:	Full Name: lactate dehydrogenase D		
	Immunogen Catalog Number: Calculated MW: AG5897 52 kDa				
	Observed MW: 45-54 kDa				
Applications	Tested Applications:		Positive Controls: WB : mouse liver tissue, HepG2 cells, rat liver tissue		
	WB, IHC, IF/ICC, ELISA				
	Cited Applications: WB, IHC, IP, IF		IHC : human liver cancer tissue, human osteosarco tissue		
	Species Specificity: human, mouse, rat		IF/ICC : HepG	2 cells,	
	Cited Species: human				
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
Background Information	Two naturally occurring forms of lactate dehydrogenase with similar but unique substrate specificities have been isolated in lower organisms including invertebrates, fungi, and prokaryotes. These dehydrogenase enzymes are L-lactate dehydrogenase and D-lactate dehydrogenase (LDHD) that are specific to the L and D isomers of lactate, respectively (PMID: 12127981). In lactic acid bacteria, LDHD plays a key role in anaerobic energy metabolism (PMID 497162). Despite the identification of D-lactate and other D-2-hydroxyacids in prokaryotes, and the obvious connections and similarities to vertebrate metabolic pathways, very few mammalian D-2-hydroxyacid dehydrogenases have been found. LDHD has 2 isoforms with the molecular weight of 52 and 54kDa, and can be detected as 45-54 kDa.				
Notable Publications	Author	Pubmed ID Journ	าอไ		Application
	Mengzhu Lv	37582812 Signa	al Transduct Targ	get Ther	IHC,IP
	Yu Zhang	37587457 BMC	Cancer		IHC,WB,IF
Storage	Storage: Store at -20°C. Stable for one yea	- for all instant			

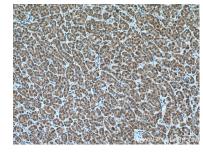
 For technical support and original validation data for this product please contact:

 T: 4006900926
 E: Proteintech-CN@ptglab.com
 W: ptgcn.com

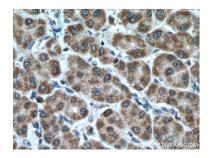
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data

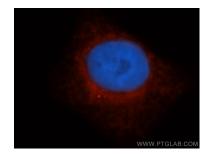




Various lysates were subjected to SDS PAGE followed by western blot with 14398-1-AP (LDHD antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 14398-1-AP (LDHD antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 14398-1-AP (LDHD antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HepG2 cells, using LDHD antibody 14398-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).