For Research Use Only

ALDH2 Polyclonal antibody

Catalog Number:15310-1-AP

Featured Product 60 Publications

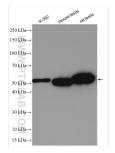


Basic Information	Catalog Number: 15310-1-AP	GenBank Accession Number: BC002967		Purification Method: Antigen affinity purification	
	Concentration:	GenelD (NCB	I):	Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF/ICC 1:500-1:1000	
	650 ug/ml	217			
	Source:	UNIPROT ID:			
	Rabbit	P05091			
	Isotype: IgG Immunogen Catalog Number: AG7452	Full Name: aldehyde deł (mitochondri	nydrogenase 2 family		
		Calculated M 56 kDa	-		
			Observed MW:		
Applications	Tested Applications:	Positive Cont		trols:	
	Cited Applications:cells, moWB, IHC, IF, IP, CoIPtestis tisSpecies Specificity:tissuehuman, mouse, ratIP : HepCCited Species:IHC : hurhuman, mouse, rat, pig, zebrafishIHC : hur		WB : K-562 cells, HEK-293 cells, HepG2 cells, HuH-7		
			testis tissue,	cells, mouse kidney tissue, mouse liver tisue, mouse testis tissue, rat kidney tissue, rat liver tissue, rat testis tissue IP : HepG2 cells, IHC : human liver tissue, IF/ICC : A549 cells,	
	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	Acetaldehyde dehydrogenase is the next enzyme after alcohol dehydrogenase in the major pathway of alcohol metabolism. It mediates NADP+-dependent oxidation of aldehydes into acids during detoxification of alcohol- derived acetaldehyde; lipid peroxidation; and metabolism of corticosteroids, biogenic amines and neurotransmitters. Genetic variation in ALDH2 is responsible for individual differences in responses to drinking alcohol. Thus, the absence of this enzyme is linked to alcohol intolerance and a reduced risk for alcoholism-related liver disease.				
Notable Publications	Author	Pubmed ID	Journal	Application	
	Yusuke Amanuma	26374466	Sci Rep	WB	
	Xiaojuan Chao	34486131	Alcohol Clin Exp Re	s WB	
	Shanshan Zhong	30375985	J Clin Invest	WB,IP,IF	
Storage	Storage: Store at -20°C. Stable for one yea Storage Buffer: PBS with 0.02% sodium azide an Aliquoting is unnecessary for -2C	d 50% glycerol, pH	17.3		

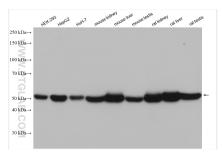
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

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

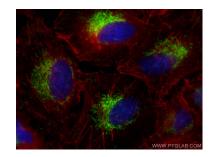
Selected Validation Data



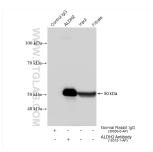
Various lysates were subjected to SDS PAGE followed by western blot with 15310-1-AP (ALDH2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 15310-1-AP (ALDH2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



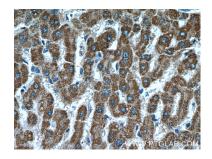
Immunofluorescent analysis of (4% PFA) fixed A549 cells using ALDH2 antibody (15310-1-AP) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



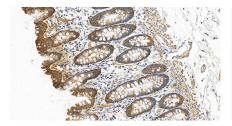
IP result of anti-ALDH2 (IP:15310-1-AP, 4ug; Detection:15310-1-AP 1:8000) with HepG2 cells lysate 2040 ug.



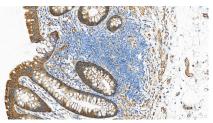
Immunohistochemical analysis of paraffinembedded human liver tissue slide using 15310-1-AP (ALDH2 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffinembedded human liver tissue slide using 15310-1-AP (ALDH2 Antibody) at dilution of 1:200 (under 40x lens).



Immunohistochemical analysis of paraffinembedded human normal colon slide using 15310-1-AP (ALDH2 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human normal colon slide using 15310-1-AP (ALDH2 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).