## For Research Use Only

## ALDH1A1 Polyclonal antibody

Catalog Number:15910-1-AP

Featured Product

114 Publications

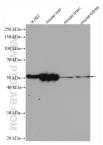


Basic Information	Catalog Number: 15910-1-AP	GenBank Accession Number: BC001505		Purification Method: Antigen affinity purification
	Size: 150ul , Concentration: 450 µg/ml by Nanodrop; Source:	GenelD (NCBI): 216		Recommended Dilutions: WB 1:1000-1:4000
		Full Name:		IP 0.5-4.0 ug for IP and 1:5000-1:50000
		aldehyde dehydrogenase 1 family,		for WB
	Rabbit	member A1 Calculated MW:		IHC 1:50-1:500
	lsotype:		IF 1:50-1:500	
	IgG	501 aa, 55 kDa Observed MW: 50-55 kDa		
	Immunogen Catalog Number: AG8665			
Applications	Tested Applications:	Positive Cont		rols:
	FC, IF, IHC, IP, WB, ELISA		WB : K-562 cells, mouse liver tissue, mouse brain tissue, mouse kidney tissue, rat liver tissue IP : mouse liver tissue,	
	Cited Applications: CoIP, ELISA, IF, IHC, WB			
	Species Specificity:		IHC : mouse t	estis tissue, human liver tissue
	human, mouse, rat		IF : mouse colon tissue, HepG2 cells, mouse testis	
	Cited Species: human, rat, mouse, bovine	tissue		
Background Information	ALDH1A1(Aldehyde dehydrogenase family 1 member A1), also named as ALDC, ALDH1 and PUMB1, belongs to the aldehyde dehydrogenase family. The ALDH1A1 gene encodes a liver cytosolic isoform of acetaldehyde dehydrogenase, an enzyme involved in the major pathway of alcohol metabolism after alcohol dehydrogenase. ALDH1A1 plays a critical role in protection against oxidative stress-induced cytotoxicity in lens epithelial cells(PMID:19296407). And it is important for multiple biological activities including drug resistance, cell differentiation, and oxidative stress response(PMID:19025616). As a novel cancer stem cell marker, ALDH1A1 can be used for tumors whose corresponding normal tissues express ALDH1 in relatively restricted or limited levels such as breast, lung, ovarian or colon cancer(PMID: 20422001). This antibody can also recognize some other membranes of the aldehyde dehydrogenase family.			
	used for tumors whose corresponding breast, lung, ovarian or colon cancer	g normal tissues expres (PMID: 20422001). This	s ALDH1 in rela	cancer stem cell marker, ALDH1A1 can b tively restricted or limited levels such a
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Notable Publications	used for tumors whose corresponding breast, lung, ovarian or colon cancerd the aldehyde dehydrogenase family Author Pu Lei Liu 30 XIAOYUE FENG 34	g normal tissues express (PMID: 20422001). This 7. ibmed ID Journ 1273566 Chen 1528694 Onco 1532864 EMBC iter shipment.	s ALDH1 in rela antibody can a nal n Biol Interact l Rep	cancer stem cell marker, ALDH1A1 can b tively restricted or limited levels such a so recognize some other membranes of Application WB WB

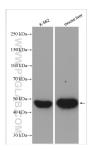
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free<br/>in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.com

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

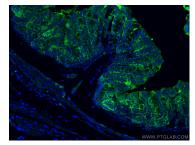
## Selected Validation Data



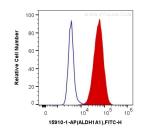
Various lysates were subjected to SDS PAGE followed by western blot with 15910-1-AP (ALDH1A1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



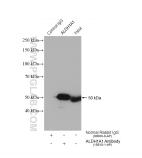
Various lysates were subjected to SDS PAGE followed by western blot with 15910-1-AP (ALDH1A1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



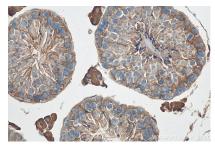
Immunofluorescent analysis of (4% PFA) fixed mouse colon tissue using 15910-1-AP (ALDH1A1 antibody), at dilution of 1:100 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



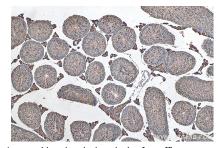
1X10^6 HepG2 cells were intracellularly stained with 0.2 ug Anti-Human ALDH1A1 (15910-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



IP result of anti-ALDH1A1(IP:15910-1-AP, 4ug; Detection:15910-1-AP 1:10000) with mouse liver tissue lysate 3040 ug.



Immunohistochemical analysis of paraffinembedded mouse testis tissue slide using 15910-1-AP (ALDH1A1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse testis tissue slide using 15910-1-AP (ALDH1A1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).