For Research Use Only

## ALDH1A1 Recombinant antibody

Catalog Number:83830-2-RR

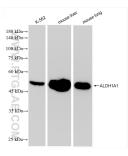


<b>Basic Information</b>	Catalog Number: 83830-2-RR	GenBank Accession Number: BC001505	Purification Method: Protein A purification
	Size: 100ul, Concentration: 1000 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG8665	GenelD (NCBI):	CloneNo.: 240995F4 Recommended Dilutions: WB 1:5000-1:50000 IHC 1:50-1:500
Applications	Tested Applications: WB, IHC, ELISA Species Specificity: human, mouse Note-IHC: suggested antigen r	IHC : huma	ontrols: cells, mouse liver tissue, mouse lung tissue n cervical squamous cancer tissue,
Background Information	TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 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).		
Storage *** 20ul sizes contain 0.1% BSA	Storage: Store at -20°C. Stable for one year after Storage Buffer: PBS with 0.02% sodium azide and 50° Aliquoting is unnecessary for -20°C st	% glycerol pH 7.3.	

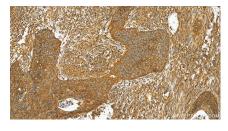
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

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

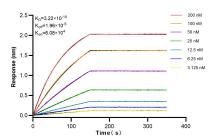
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83830-2-RR (ALDH1A1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human cervical squamous cancer tissue slide using 83830-2-RR (ALDH1A1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLL) kinetic assays of 83830-2-RR against Human ALDH1A1 were performed. The affinity constant is 0.322 nM.