For Research Use Only

PYCR1 Polyclonal antibody

Catalog Number:13108-1-AP

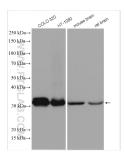




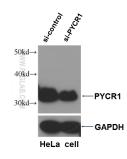
Basic Information	Catalog Number: 13108-1-AP	GenBank Accession Number: BC022244		Purification Method: Antigen affinity purification	
	Concentration: 900 µg/ml			Recommended Dilutions: WB 1:1000-1:4000	
	Source: UNIPROT ID: Rabbit P32322		IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate		
	lsotype: IgG	Full Name: pyrroline-5-carboxylate reductase 1		IHC 1:100-1:400 IF/ICC 1:200-1:800	
	Immunogen Catalog Number: AG3764	Calculated MW 319 aa, 33.8 kD			
		Observed MW: 33 kDa, 35 kDa			
Applications	Tested Applications: Positive Cor		rols:		
	Cited Applications: m		mouse embry	WB : COLO 320 cells, HeLa cells, human brain tissue mouse embryo tissue, mouse liver tissue, NIH/3T3 cells, HT-1080 cells, mouse brain tissue, rat brain tissue	
	Species Specificity: tissue		tissue		
	human, mouse, rat IP : mouse br		in tissue,		
	Cited Species: IHC : human prostat human, mouse, zebrafish		prostate cancer tissue,		
	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	PYCR1,also named as P5CR1, belongs to the pyrroline-5-carboxylate reductase family. It is a housekeeping enzym that catalyzes the last step in proline biosynthesis. PYCR1 can utilize both NAD and NADP, but has higher affinity for NAD. It is involved in the cellular response to oxidative stress. Mutation in PYCR1 will cause ARCL type II(ARCL2B) Some mutation will cause DeBarsy syndrome (DBS) which is characterized by progeroid features, ophthalmologica abnormalities, intrauterine growth retardation, and cutis laxa. The MW of PYCR1 is about 33-35 kDa. PYCR1 has 3 isoforms produced by alternative splicing. This antibody may have cross reaction to PYCR2 due to the high homology.				
Notable Publications	Author	Pubmed ID	Journal	Application	
Notable Publications	Hisayo Jin	27796797	Cell Stress Chaperone	25	
Notable Publications		_	Nat Commun	WB,IHC,IP	
Notable Publications	Ling Guo	33004813			
Notable Publications	Ling Guo Yingyi Ye	33004813 30568501	Cancer Manag Res	WB	

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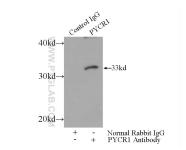
Selected Validation Data



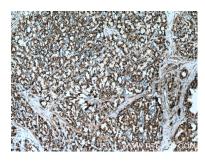
Various lysates were subjected to SDS PAGE followed by western blot with 13108-1-AP (PYCR1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



WB result of PYCR1 antibody (13108-1-AP, 1:5000) with si-Control and si-PYCR1 transfected HeLa cells.



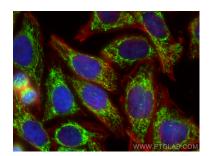
IP result of anti-PYCR1 (IP:13108-1-AP, 3ug; Detection:13108-1-AP 1:700) with mouse brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffinembedded human prostate cancer tissue slide using 13108-1-AP (PYCR1 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 prostate cancer tissue slide using 13108-1-AP (PYCR1 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using PYCR1 antibody (13108-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).