

For Research Use Only

PYCR1-specific Polyclonal antibody



Catalog Number: 20962-1-AP

2 Publications

Basic Information

Catalog Number: 20962-1-AP	GenBank Accession Number: NM_006907	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 600 µg/ml by Nanodrop and 313 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5831	Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
Source: Rabbit	Full Name: pyrroline-5-carboxylate reductase 1	IHC 1:20-1:200
Isotype: IgG	Calculated MW: 33 kDa	
	Observed MW: 34 kDa	

Applications

Tested Applications: IHC, IP, WB, ELISA	Positive Controls: WB : Raji cells, human brain tissue IP : Raji cells, IHC : human colon cancer tissue,
Cited Applications: WB	
Species Specificity: human, mouse	
Cited Species: human, mouse	
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 enzyme 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 DeBary syndrome (DBS) which is characterized by progeroid features, ophthalmological abnormalities, intrauterine growth retardation, and cutis laxa. The MW of PYCR1 is about 33-35kd. This antibody is specific to PYCR1.

Notable Publications

Author	Pubmed ID	Journal	Application
Simon Schwörer	32134147	EMBO J	WB
Nneka Southwell	37222423	EMBO Mol Med	WB

Storage

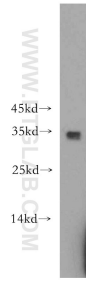
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

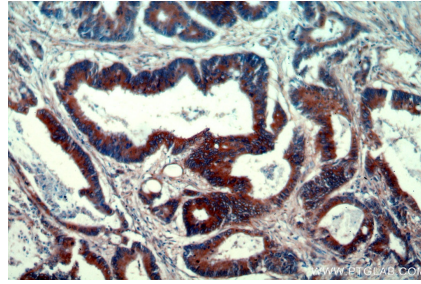
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

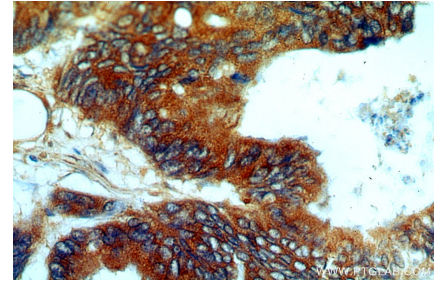
Selected Validation Data



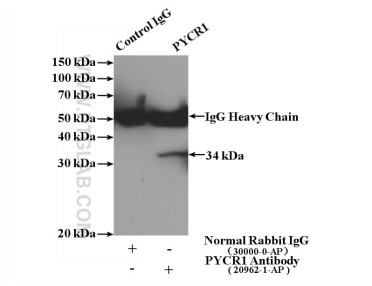
Raji cells were subjected to SDS PAGE followed by western blot with 20962-1-AP (PYCR1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer using 20962-1-AP (PYCR1 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human colon cancer using 20962-1-AP (PYCR1 antibody) at dilution of 1:50 (under 40x lens).



IP Result of anti-PYCR1 (IP:20962-1-AP, 4ug; Detection:20962-1-AP 1:500) with Raji cells lysate 1440ug.