

PYCR1 Polyclonal Antibody

Catalog number: 13108-1-AP

Size: 46 µg/150 µl

Source: Rabbit

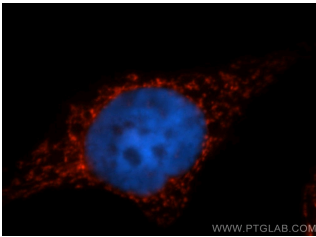
Isotype: IgG

Synonyms:

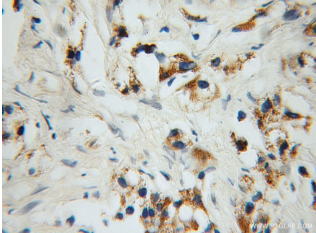
PYCR1; P5C, P5C reductase 1,

P5CR, P5CR 1, PIG45, PP222,

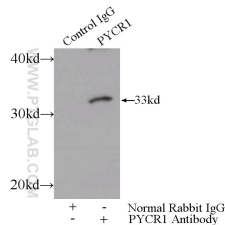
PYCR, PYCR1



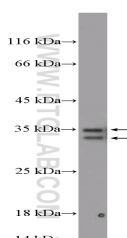
Immunofluorescent analysis of MCF-7 cells, using PYCR1 antibody 13108-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



Immunohistochemical of paraffin-embedded human prostate cancer using 13108-1-AP (PYCR1 antibody) at dilution of 1:100 (under 10x lens)



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



HT-1080 cells were subjected

Background

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 33-35 kDa. PYCR1 has 3 isoforms produced by alternative splicing.

Applications

Tested applications:	ELISA, IHC, IF, IP, WB
Cited applications:	IF, WB
Species specificity:	Human, Mouse, Rat, Zebrafish; other species not tested.
Cited species:	Human, zebrafish
Calculated PYCR1 MW:	319aa, 33.8 kDa
Observed PYCR1 MW:	33 kDa, 35 kDa
Positive WB detected in	HT-1080 cells, human brain tissue, mouse brain tissue, mouse embryo tissue, NIH/3T3 cells
Positive IP detected in	Mouse brain tissue
Positive IHC detected in	Human prostate cancer tissue
Positive IF detected in	MCF-7 cells
Recommended dilution:	WB: 1:500-1:5000 IP: 1:200-1:2000 IHC: 1:20-1:200 IF: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag3764
GenBank accession number:	BC022244
Gene ID (NCBI):	5831
Full name:	Pyrroline-5-carboxylate reductase 1

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.

to SDS PAGE followed by
western blot with 13108-1-
AP(PYCR1 Antibody) at
dilution of 1:1000