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PYCRL Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21393c

Product Information

Application	WB, E
Primary Accession	Q53H96
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB52897
Calculated MW	28663

Additional Information

Gene ID	65263
Other Names	Pyrroline-5-carboxylate reductase 3, P5C reductase 3, P5CR 3, Pyrroline-5-carboxylate reductase-like protein, PYCRL
Target/Specificity	This PYCRL antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 139-171 amino acids from the Central region of human PYCRL.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PYCRL Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PYCR3 (HGNC:25846)
Function	Oxidoreductase that catalyzes the last step in proline biosynthesis, which corresponds to the reduction of pyrroline-5- carboxylate (P5C) to L-proline using NAD(P)H (PubMed:23024808, PubMed:36414121). Proline is synthesized from either glutamate or ornithine; both are converted to P5C, and then to proline via pyrroline-5-carboxylate reductases (PYCRs) (PubMed:23024808).

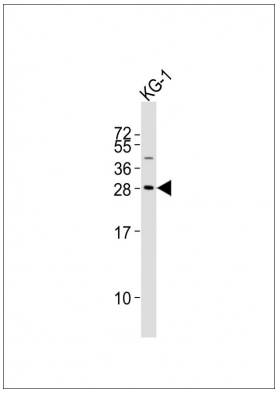
PYCR3 is exclusively linked to the biosynthesis of proline from ornithine (PubMed:23024808).

Cellular Location Cytoplasm.

References

Ota T.,et al.Nat. Genet. 36:40-45(2004).
Nusbaum C.,et al.Nature 439:331-335(2006).
Suzuki Y.,et al.Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Burkard T.R.,et al.BMC Syst. Biol. 5:17-17(2011).

Images



Anti-PYCRL Antibody (Center)at 1:2000 dilution + KG-1 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 29 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.