
Product Name: KD-Validated PYCR2 Mouse Monoclonal Antibody**Catalog #: KVA00291**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2a
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 33.6kDa

Antigen Information

Gene Name	PYCR2
Alternative Names	PYCR2; Pyrroline-5-Carboxylate Reductase 2; P5CR2; Pyrroline-5-Carboxylate Reductase Family Member 2; P5C Reductase 2; EC 1.5.1.2; P5CR 2; HLD10
Gene ID	29920.0
SwissProt ID	Q96C36
Immunogen	Recombinant protein of human PYCR2

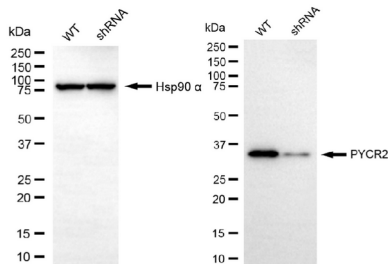
Background

This gene belongs to the pyrroline-5-carboxylate reductase family. The encoded mitochondrial protein catalyzes the conversion of pyrroline-5-carboxylate to proline, which is the last step in proline biosynthesis. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Nov 2012]

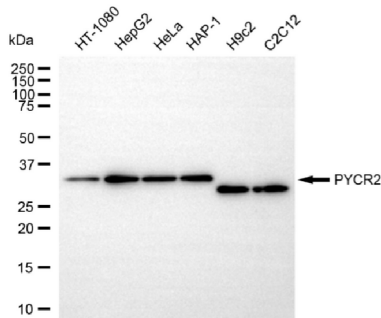
Research Area

Signal Transduction, Cell Biology, Metabolism

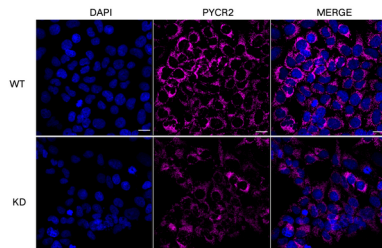
Image Data



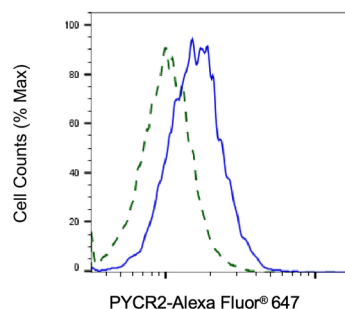
Western blotting analysis using PYCR2 antibody (KVA00291). PYCR2 expression in wild-type (WT) and PYCR2 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PYCR2 antibody (KVA00291, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



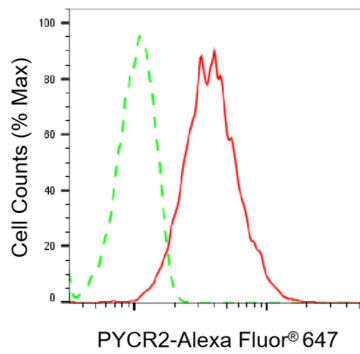
Western blotting analysis using PYCR2 antibody (KVA00291). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PYCR2 antibody (KVA00291, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using PYCR2 antibody (KVA00291, 1:1,000). Top panel: wild-type (WT); Bottom panel: PYCR2 shRNA knockdown (KD). Nuclei were stained blue with DAPI; PYCR2 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Validation of PYCR2 knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with PYCR2 antibody (KVA00291, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of PYCR2 expression in HepG2 cells using PYCR2 antibody (KVA00291, 1:2,000). Green, isotype control; red, PYCR2.