

Rabbit anti-Human, Mouse PYCRL/PYCR3 Polyclonal Antibody | anti-PYCRL/PYCR3 antibody

Anti-PYCRL/PYCR3 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA128216	Rabbit	Human, Mouse	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

PYCRL/PYCR3; Polyclonal Antibody; Anti-PYCRL/PYCR3 Antibody Picoband; Pyrroline-5-carboxylate reductase 3; pyrroline-5-carboxylate reductase 3; PYCR3; PYCRL; P5C reductase 3; P5CR 3; EC 1.5.1.2; Pyrroline-5-carboxylate reductase-like protein; anti-PYCRL/PYCR3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-PYCRL/PYCR3 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human PYCRL/PYCR3 recombinant protein (Position: M1-D233). Human PYCRL/PYCR3 shares 81.5% and 82.4% amino acid (aa) sequence identity with mouse and rat PYCRL/PYCR3, respectively.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of A549 cells using anti-PYCRL/PYCR3 antibody (AAA128216). Overlay histogram showing A549 cells stained with AAA128216 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PYCRL/PYCR3 Antibody (AAA128216, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)
Figure 1. Western blot analysis of PYCRL/PYCR3 using anti-PYCRL/PYCR3 antibody (AAA128216). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human PC-3 whole cell lysates, Lane 2: human MCF-7 whole cell lysates, Lane 3: human 293T whole cell lysates, Lane 4: human A549 whole cell lysates, Lane 5: mouse kidney tissue lysates, Lane 6: mouse small intestine tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PYCRL/PYCR3 antigen affinity purified polyclonal antibody (AAA128216) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PYCRL/PYCR3 at approximately 29 kDa. The expected band size for PYCRL/PYCR3 is at 29 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PYCRL/PYCR3 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-PYCRL/PYCR3 antibody	Primary Antibodies
References	1. De Ingeniis, J., Ratnikov, B., Richardson, A. D., Scott, D. A., Aza-Blanc, P., De, S. K., Kazanov, M., Pellecchia, M., Ronai, Z., Osterman, A. L., Smith, J. W. Functional specialization in proline biosynthesis of melanoma. PLoS One 7: e45190, 2012. Note: Electronic Article.

NCBI AND UNIPROT INFORMATION

NCBI GI #	198041662
NCBI GeneID	65263
NCBI Accession #	NP_075566.2
NCBI GenBank Nucleotide #	NM_023078.3
UniProt Accession #	Q53H96; Q8N3N9; Q96HX4; Q9H896; B3KMB5; B4DVT6; H0Y6C3
Molecular Weight	26,440 Da
NCBI Official Full Name	pyrroline-5-carboxylate reductase 3
NCBI Official Synonym Full Names	pyrroline-5-carboxylate reductase-like
NCBI Official Symbol	PYCRL
NCBI Protein Information	pyrroline-5-carboxylate reductase 3; P5C reductase 3; P5CR 3; pyrroline-5-carboxylate reductase-like protein
UniProt Protein Name	Pyrroline-5-carboxylate reductase 3
UniProt Gene Name	PYCRL
UniProt Synonym Gene Names	P5C reductase 3; P5CR 3
UniProt Entry Name	P5CR3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pycr1-pycr3-antibody-flow-cytometry-western-blot-elisa/128216>