

Anti-P5CS Antibody
Rabbit polyclonal antibody to P5CS
Catalog # AP61058**Specification**

Anti-P5CS Antibody - Product Information

Application	WB
Primary Accession	P54886
Other Accession	O9Z110
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	87302

Anti-P5CS Antibody - Additional Information**Gene ID** 5832**Other Names**

GSAS; P5CS; PYCS; Delta-1-pyrroline-5-carboxylate synthase; P5CS; Aldehyde dehydrogenase family 18 member A1

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human P5CS. The exact sequence is proprietary.

Dilution

WB~~WB (1/500 - 1/1000)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-P5CS Antibody - Protein Information**Name** ALDH18A1**Synonyms** GSAS, P5CS, PYCS**Function**

Bifunctional enzyme that converts glutamate to glutamate 5- semialdehyde, an intermediate in the biosynthesis of proline, ornithine and arginine.

Cellular Location

Mitochondrion. Mitochondrion matrix. Note=Exhibits puncta-like structures inside mitochondria

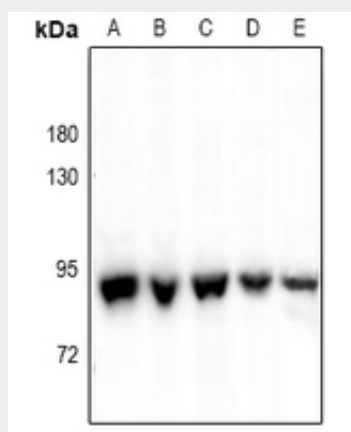
under nutrient stress (PubMed:32770108). When cellular dependence on oxidative phosphorylation increases, forms filaments, which may increase its activity, and is sequestered in a subset of atypical mitochondria that lack cristae and ATP synthase (PubMed:39506109).

Anti-P5CS Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-P5CS Antibody - Images



Western blot analysis of P5CS expression in HCT116 (A), Panc1 (B), SGC7901 (C), A375 (D), mouse embryo (E) whole cell lysates.

Anti-P5CS Antibody - Background

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