

## Rabbit ALDH18A1 Polyclonal Antibody | anti-ALDH18A1 antibody

ALDH18A1 antibody - N-terminal region

| CATALOG # | HOST   | REACTIVITY                                                             | APPLICATIONS |
|-----------|--------|------------------------------------------------------------------------|--------------|
| AAA200554 | Rabbit | Cow, Dog, Guinea Pig, Horse, Human, Mouse, Pig, Rabbit, Rat, Zebrafish | Western Blot |

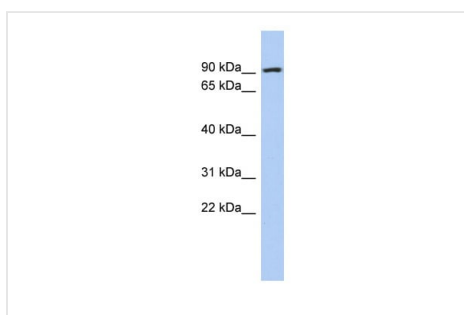
### PRODUCT SYNONYMS

ALDH18A1; Polyclonal Antibody; ALDH18A1 antibody - N-terminal region; anti-ALDH18A1 antibody

### PRODUCT SPECIFICATIONS

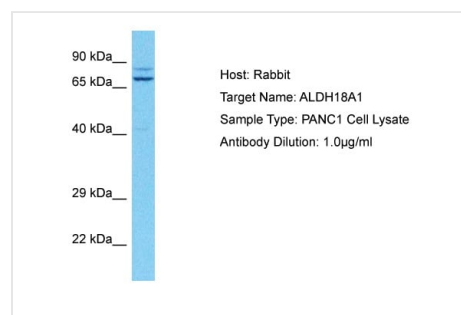
|                                                    |                                                                                                                                                       |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                               | Rabbit                                                                                                                                                |
| Reactivity                                         | Cow, Dog, Guinea Pig, Horse, Human, Mouse, Pig, Rabbit, Rat, Zebrafish                                                                                |
| Clonality                                          | Polyclonal                                                                                                                                            |
| Purity/Purification                                | Affinity Purified                                                                                                                                     |
| Form/Format                                        | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.                                                     |
| Sequence                                           | Synthetic peptide with the following region: SV IRHVRWSNI PFITVPLSRT HGKSFAHRSE LKHAKRIVVK LGSVVTR                                                    |
| Sequence Length                                    | 793                                                                                                                                                   |
| Applicable Applications for anti-ALDH18A1 antibody | WB (Western Blot)                                                                                                                                     |
| Homology                                           | Cow: 100%; Dog: 93%; Guinea Pig: 86%; Horse: 100%; Human: 100%; Mouse: 86%; Pig: 100%; Rabbit: 93%; Rat: 100%; Zebrafish: 92%                         |
| Immunogen                                          | The immunogen is a synthetic peptide directed towards the N terminal region of human ALDH18A1                                                         |
| Preparation and Storage                            | For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |

### IMAGES



#### WB (Western Blot)

WB Suggested Anti-ALDH18A1 Antibody Titration: 0.2-1 ug/ml  
 ELISA Titer: 1:62500  
 Positive Control: 721\_B cell lysate  
 ALDH18A1 is supported by BioGPS gene expression data to be expressed in 721\_B



#### WB (Western Blot)

Host: Rabbit  
 Target Name: ALDH18A1  
 Sample Tissue: Human PANC1 Whole Cell  
 Antibody Dilution: 1ug/ml

## ADDITIONAL INFORMATION

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-ALDH18A1 antibody | <p>This is a rabbit polyclonal antibody against ALDH18A1. It was validated on Western Blot using a cell lysate as a positive control.</p> <p>Target Description: This gene is a member of the aldehyde dehydrogenase family and encodes a bifunctional ATP- and NADPH-dependent mitochondrial enzyme with both gamma-glutamyl kinase and gamma-glutamyl phosphate reductase activities. The encoded protein catalyzes the reduction of glutamate to delta1-pyrroline-5-carboxylate, a critical step in the de novo biosynthesis of proline, ornithine and arginine. Mutations in this gene lead to hyperammonemia, hypoorithinemia, hypocitrullinemia, hypoargininemia and hypoprolinemia and may be associated with neurodegeneration, cataracts and connective tissue diseases. This gene is a member of the aldehyde dehydrogenase family and encodes a bifunctional ATP- and NADPH-dependent mitochondrial enzyme with both gamma-glutamyl kinase and gamma-glutamyl phosphate reductase activities. The encoded protein catalyzes the reduction of glutamate to delta1-pyrroline-5-carboxylate, a critical step in the de novo biosynthesis of proline, ornithine and arginine. Mutations in this gene lead to hyperammonemia, hypoorithinemia, hypocitrullinemia, hypoargininemia and hypoprolinemia and may be associated with neurodegeneration, cataracts and connective tissue diseases. Alternatively spliced transcript variants, encoding different isoforms, have been described for this gene.</p> |
| Product Categories/Family for anti-ALDH18A1 antibody   | Polyclonal; Drugs and Drug Metabolism; Signal Transduction; Various; Disease Related                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## NCBI AND UNIPROT INFORMATION

|                                  |                                                     |
|----------------------------------|-----------------------------------------------------|
| NCBI GI #                        | 62912457                                            |
| NCBI GeneID                      | 5832                                                |
| NCBI Accession #                 | NP_001017423                                        |
| NCBI GenBank Nucleotide #        | NM_001017423                                        |
| UniProt Accession #              | P54886                                              |
| Molecular Weight                 | 87kDa                                               |
| NCBI Official Full Name          | delta-1-pyrroline-5-carboxylate synthase isoform 2  |
| NCBI Official Synonym Full Names | aldehyde dehydrogenase 18 family member A1          |
| NCBI Official Symbol             | ALDH18A1                                            |
| NCBI Official Synonym Symbols    | GSAS; P5CS; PYCS; SPG9; ADCL3; SPG9A; SPG9B; ARCL3A |
| NCBI Protein Information         | delta-1-pyrroline-5-carboxylate synthase            |
| UniProt Protein Name             | Delta-1-pyrroline-5-carboxylate synthase            |
| UniProt Gene Name                | <b>ALDH18A1</b>                                     |
| UniProt Synonym Gene Names       | GSAS; P5CS; PYCS; P5CS; GK; GPR                     |
| UniProt Entry Name               | P5CS_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://www.aaabiotech.com/polyclonal/aldh18a1-antibody-western-blot-elisa/200554>