

**ALDH3A2 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP1468b****Specification**

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**ALDH3A2 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [P51648](#)**ALDH3A2 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 224

**Other Names**

Fatty aldehyde dehydrogenase, Aldehyde dehydrogenase 10, Aldehyde dehydrogenase family 3 member A2, Microsomal aldehyde dehydrogenase, ALDH3A2, ALDH10, FALDH

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP1468b](/product/products/AP1468b) was selected from the C-term region of human ALDH3A2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**ALDH3A2 Antibody (C-term) Blocking Peptide - Protein Information**

Name ALDH3A2

**Function**

Catalyzes the oxidation of medium and long chain aliphatic aldehydes to fatty acids. Active on a variety of saturated and unsaturated aliphatic aldehydes between 6 and 24 carbons in length (PubMed: [9133646](http://www.uniprot.org/citations/9133646), PubMed: [22633490](http://www.uniprot.org/citations/22633490), PubMed: [25047030](http://www.uniprot.org/citations/25047030), PubMed: [18035827](http://www.uniprot.org/citations/18035827), PubMed: [9662422](http://www.uniprot.org/citations/9662422), PubMed: [18182499](http://www.uniprot.org/citations/18182499)). Responsible for conversion of the sphingosine 1-phosphate (S1P) degradation product hexadecenal to hexadecenoic acid (PubMed: [22633490](http://www.uniprot.org/citations/22633490)).

**Cellular Location**

Microsome membrane; Single-pass membrane protein. Endoplasmic reticulum membrane; Single-pass membrane protein; Cytoplasmic side {ECO:0000250|UniProtKB:P30839}

**Tissue Location**

Detected in liver (at protein level).

**ALDH3A2 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**ALDH3A2 Antibody (C-term) Blocking Peptide - Images****ALDH3A2 Antibody (C-term) Blocking Peptide - Background**

Aldehyde dehydrogenase isozymes are thought to play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. ALDH3A2 catalyzes the oxidation of long-chain aliphatic aldehydes to fatty acid. Mutations in the ALDH3A2 gene cause Sjogren-Larsson syndrome.

**ALDH3A2 Antibody (C-term) Blocking Peptide - References**

Ashibe,B., J. Biol. Chem. 282 (28), 20763-20773 (2007)Rizzo,W.B., Mol. Genet. Metab. 90 (1), 1-9 (2007)