

ALDH1L1 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP7848b**Specification**

ALDH1L1 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [O75891](#)**ALDH1L1 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 10840**Other Names**

Cytosolic 10-formyltetrahydrofolate dehydrogenase, 10-FTHFDH, FDH, Aldehyde dehydrogenase family 1 member L1, ALDH1L1, FTHFD

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7848b](/products/AP7848b) was selected from the C-term region of human ALDH1L1. 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.

ALDH1L1 Antibody (C-term) Blocking Peptide - Protein Information**Name** ALDH1L1 ([HGNC:3978](#))**Synonyms** FTHFD**Function**

Cytosolic 10-formyltetrahydrofolate dehydrogenase that catalyzes the NADP(+)-dependent conversion of 10-formyltetrahydrofolate to tetrahydrofolate and carbon dioxide (PubMed: [19933275](http://www.uniprot.org/citations/19933275), PubMed: [21238436](http://www.uniprot.org/citations/21238436)). May also have an NADP(+)-dependent aldehyde dehydrogenase activity towards formaldehyde, acetaldehyde, propionaldehyde, and benzaldehyde (By similarity).

Cellular Location

Cytoplasm, cytosol.

Tissue Location

Highly expressed in liver, pancreas and kidney.

ALDH1L1 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ALDH1L1 Antibody (C-term) Blocking Peptide - Images**ALDH1L1 Antibody (C-term) Blocking Peptide - Background**

ALDH1L1 catalyzes the conversion of 10-formyltetrahydrofolate, NADP, and water to tetrahydrofolate, NADPH, and carbon dioxide. The encoded protein belongs to the aldehyde dehydrogenase family and is responsible for formate oxidation in vivo. Deficiencies in this gene can result in an accumulation of formate and subsequent methanol poisoning.

ALDH1L1 Antibody (C-term) Blocking Peptide - References

Hosgood, H.D. III, Carcinogenesis 29 (10), 1938-1943 (2008) Lee, K.M., Hum. Genet. 122 (5), 525-533 (2007)