

**ALDH1A3 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7847a****Specification**

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**ALDH1A3 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P47895](#)**ALDH1A3 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 220**Other Names**

Aldehyde dehydrogenase family 1 member A3, Aldehyde dehydrogenase 6, Retinaldehyde dehydrogenase 3, RALDH-3, RaLDH3, ALDH1A3, ALDH6

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7847a](/products/AP7847a) was selected from the N-term region of human ALDH1A3. 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.

**ALDH1A3 Antibody (N-term) Blocking Peptide - Protein Information****Name** ALDH1A3**Synonyms** ALDH6 {ECO:0000303|PubMed:7698756}**Function**

Catalyzes the NAD-dependent oxidation of aldehyde substrates, such as all-trans-retinal and all-trans-13,14-dihydroretinal, to their corresponding carboxylic acids, all-trans-retinoate and all-trans-13,14-dihydroretinoate, respectively (By similarity) (PubMed:[27759097](http://www.uniprot.org/citations/27759097)). High specificity for all-trans-retinal as substrate, can also accept acetaldehyde as substrate in vitro but with lower affinity (PubMed:[27759097](http://www.uniprot.org/citations/27759097)). Required for the biosynthesis of normal levels of retinoate in the embryonic ocular and nasal regions; a critical lipid in the embryonic development of the eye and the nasal region (By similarity).

**Cellular Location**

Cytoplasm {ECO:0000250|UniProtKB:Q9JHW9}.

**Tissue Location**

Expressed at low levels in many tissues and at higher levels in salivary gland, stomach, and kidney

**ALDH1A3 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**ALDH1A3 Antibody (N-term) Blocking Peptide - Images****ALDH1A3 Antibody (N-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. The enzyme ALDH1A3 uses retinal as a substrate, either in a free or cellular retinol-binding protein form.

**ALDH1A3 Antibody (N-term) Blocking Peptide - References**

Rexer,B.N., Cancer Res. 61 (19), 7065-7070 (2001)Yoshida,A., Eur. J. Biochem. 251 (3), 549-557 (1998)