10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

ALDH1A3 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP7847c

Specification

ALDH1A3 Antibody (Center) Blocking Peptide - Product Information

Primary Accession P47895

ALDH1A3 Antibody (Center) 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 AP7847c was selected from the Center 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 (Center) Blocking Peptide - Protein Information

Name ALDH1A3

ALDH1A3 Antibody (Center) 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 (Center) Blocking Peptide - References

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

Synonyms ALDH6 {ECO:0000303|PubMed:7698756}

Function
NAD-dependent aldehyde dehydrogenase that catalyzes the formation of retinoic acid (PubMed:27759097). Has high activity with all-trans retinal, and has much lower in vitro activity with acetaldehyde (PubMed:27759097). Required for the biosynthesis of normal levels of retinoic acid in the embryonic ocular and nasal regions; retinoic acid is required for normal 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 (Center) Blocking Peptide - Protocols

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

- Blocking Peptides