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ALDH3B1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP8706c

Specification

ALDH3B1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession P43353

ALDH3B1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 221

Other Names
Aldehyde dehydrogenase family 3 member B1, Aldehyde dehydrogenase 7, ALDH3B1, ALDH7

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8706c was selected from the Center region of human ALDH3B1. 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.

ALDH3B1 Antibody (Center) Blocking Peptide - Protein Information

Name ALDH3B1

Synonyms ALDH7

Function
Oxidizes medium and long chain saturated and unsaturated aldehydes (PubMed:17382292, PubMed:23721920). Metabolizes also benzaldehyde (PubMed:17382292). Low activity towards acetaldehyde and 3,4-dihydroxyphenylacetaldehyde (PubMed:17382292, PubMed:23721920). May not metabolize short chain aldehydes. Can use both NADP(+) and NAD(+) as electron acceptor (PubMed:17382292). May have a

protective role against the cytotoxicity induced by lipid peroxidation (PubMed:17382292).

Cellular Location
Cell membrane; Lipid-anchor. Note=Primarily in the plasma membrane as well as in some punctate structures in the cytoplasm

Tissue Location
Highest expression in kidney and lung.

ALDH3B1 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

ALDH3B1 Antibody (Center) Blocking Peptide - Images

ALDH3B1 Antibody (Center) Blocking Peptide - Background

The aldehyde dehydrogenases are a family of isozymes that may play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation.

ALDH3B1 Antibody (Center) Blocking Peptide - References

Marchitti,S.A., et.al., Biochem. Biophys. Res. Commun. 356 (3), 792-798 (2007)