

## Mouse ALDH3A1 Monoclonal Antibody | anti-ALDH3A1 antibody

ALDH3A1 antibody

|                               |                      |                                                                                                                 |
|-------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA106532</b> | HOST<br><b>Mouse</b> | APPLICATIONS<br><b>Western Blot, Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay</b> |
|-------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------|

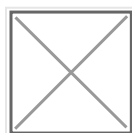
### PRODUCT SYNONYMS

ALDH3A1; Monoclonal Antibody; ALDH3A1 antibody; Monoclonal ALDH3A1; Anti-ALDH3A1; ALDHIII; ALDH3; Aldehyde dehydrogenase 3 family protein; AHD4; AHDC; ALDH III; Aldehyde dehydrogenase 3; Aldehyde dehydrogenase 3 family member A1; Aldehyde dehydrogenase 3A1; Aldehyde dehydrogenase class 3; Aldehyde dehydrogenase dimeric NADP preferring; Aldehyde dehydrogenase family 3 member A1; Aldehyde dehydrogenase family 3 subfamily A1; Aldehyde dehydrogenase isozyme 3; Aldehyde dehydrogenase type III; ALDH3A 1; MGC10406; Stomach aldehyde dehydrogenase; Tumor associated aldehyde dehydrogenase tumor ALDH; ALDHA1 3; ALDHA1-3; anti-ALDH3A1 antibody

### PRODUCT SPECIFICATIONS

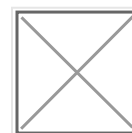
|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                              | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Clonality                                         | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Isotype                                           | IgG2a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Clone Number                                      | 1B6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Purity/Purification                               | ALDH3A1 antibody was purified by affinity chromatography.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Form/Format                                       | Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Concentration                                     | 500 ug-1 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Sequence Length                                   | 453                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Applicable Applications for anti-ALDH3A1 antibody | WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Biological Significance                           | ALDH3A1, also known as Aldehyde dehydrogenase 3 family member A1, is involved in the detoxification of alcohol-derived acetaldehyde and in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation. This protein forms a cytoplasmic homodimer that preferentially oxidizes aromatic and medium-chain (6 carbons or more) saturated and unsaturated aldehyde substrates. It is thought to promote resistance to UV and 4-hydroxy-2-nonenal-induced oxidative damage in the cornea. |
| Cross-Reactivity                                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Immunogen                                         | ALDH3A1 antibody was raised in mouse using a full length recombinant protein of human ALDH3A1 (NP_000682) produced in HEK293T cells, as the immunogen.                                                                                                                                                                                                                                                                                                                                                                   |
| Preparation and Storage                           | Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                  |

### IMAGES



#### IF (Immunofluorescence)

Immunofluorescent staining of COS7 cells transiently transfected with recombinant ALDH3A1 protein using ALDH3A1 antibody



#### IHC (Immunohistochemistry)

Immunohistochemical analysis of ALDH3A1 protein in paraffin embedded Human liver tissue using ALDH3A1 antibody



#### WB (Western Blot)

Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant ALDH3A1 protein (Right) or empty vector (Left) detected with ALDH3A1 antibody

### ADDITIONAL INFORMATION

|                                                       |                                                                                    |
|-------------------------------------------------------|------------------------------------------------------------------------------------|
| Related Product Information for anti-ALDH3A1 antibody | Mouse monoclonal ALDH3A1 antibody                                                  |
| Product Categories/Family for anti-ALDH3A1 antibody   | <a href="#">Proteases</a> ; <a href="#">Inhibitors</a> ; & <a href="#">Enzymes</a> |

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                          |
|----------------------------------|--------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">22907049</a>                                                 |
| NCBI GeneID                      | <a href="#">218</a>                                                      |
| NCBI Accession #                 | <a href="#">NP_000682</a>                                                |
| NCBI GenBank Nucleotide #        | <a href="#">NM_000691.4</a>                                              |
| UniProt Accession #              | <a href="#">P30838</a> ; <a href="#">Q9BT37</a> ; <a href="#">A8K828</a> |
| Molecular Weight                 | 50,395 Da                                                                |
| NCBI Official Full Name          | aldehyde dehydrogenase, dimeric NADP-preferring                          |
| NCBI Official Synonym Full Names | aldehyde dehydrogenase 3 family, member A1                               |
| NCBI Official Symbol             | ALDH3A1                                                                  |
| NCBI Official Synonym Symbols    | ALDH3; ALDHIII                                                           |
| NCBI Protein Information         | aldehyde dehydrogenase, dimeric NADP-preferring                          |
| UniProt Protein Name             | Aldehyde dehydrogenase, dimeric NADP-preferring                          |
| UniProt Gene Name                | <b>ALDH3A1</b>                                                           |
| UniProt Synonym Gene Names       | ALDH3                                                                    |
| UniProt Entry Name               | AL3A1_HUMAN                                                              |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/aldh3a1-antibody-clone-1b6-western-blot-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/106532>