

## Rabbit anti-Human ALDH3A1 Polyclonal Antibody | anti-ALDH3A1 antibody

Anti-ALDH3A1 antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                       |
|-----------|--------|------------|------------------------------------|
| AAA45493  | Rabbit | Human      | Immunohistochemistry, Western Blot |

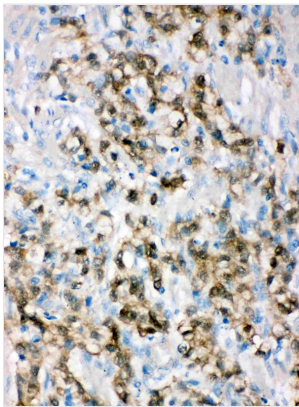
### PRODUCT SYNONYMS

ALDH3A1; Polyclonal Antibody; Anti-ALDH3A1 antibody; Aldehyde dehydrogenase; dimeric NADP-preferring; aldehyde dehydrogenase 3 family; member A1; Acetaldehyde dehydrogenase 3 antibody; AHD 4 antibody; AHD C antibody; AHD4 antibody; AHDC antibody; AL3A1\_HUMAN antibody; Aldehyde dehydrogenase 3 antibody; Aldehyde dehydrogenase 3 family member A1 antibody; Aldehyde dehydrogenase 3A1 antibody; Aldehyde dehydrogenase antibody; Aldehyde dehydrogenase class 3 antibody; Aldehyde dehydrogenase dimeric NADP preferring antibody; Aldehyde dehydrogenase family 3 member A1 antibody; Aldehyde dehydrogenase family 3 subfamily A1 antibody; Aldehyde dehydrogenase family 3; subfamily A; member 1 antibody; Aldehyde dehydrogenase isozyme 3 antibody; Aldehyde dehydrogenase type III antibody; ALDH 3 antibody; ALDH 3A1 antibody; ALDH III antibody; ALDH; stomach type antibody; ALDH3 A1 antibody; ALDH3 antibody; ALDH3A 1 antibody; Aldh3a1 antibody; ALDHIII antibody; dimeric NADP-preferring antibody; MGC10406 antibody; Stomach aldehyde dehydrogenase antibody; Tumor associated aldehyde dehydrogenase tumor ALDH antibody; anti-ALDH3A1 antibody

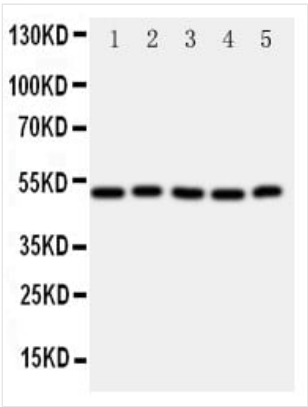
### PRODUCT SPECIFICATIONS

|                                                   |                                                                                                                                                                                                      |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                              | Rabbit                                                                                                                                                                                               |
| Reactivity                                        | Human                                                                                                                                                                                                |
| Clonality                                         | Polyclonal                                                                                                                                                                                           |
| Isotype                                           | IgG                                                                                                                                                                                                  |
| Purity/Purification                               | Immunogen affinity purified.                                                                                                                                                                         |
| Form/Format                                       | Lyophilized                                                                                                                                                                                          |
| Sequence Length                                   | 453                                                                                                                                                                                                  |
| Applicable Applications for anti-ALDH3A1 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                        |
| Immunogen                                         | A synthetic peptide corresponding to a sequence at the C-terminus of human ALDH3A1 (440-453aa KVRYPSPAKMTQH).                                                                                        |
| Contents                                          | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> .                                                                        |
| Reconstitution                                    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                 |
| Preparation and Storage                           | At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing. |

IMAGES



IHC (Immunohiostchemistry)  
Anti-ALDH3A1 antibody, AAA45493, IHC(P)IHC(P): Human Gastric Cancer Tissue



WB (Western Blot)  
Anti-ALDH3A1 antibody, AAA45493, Western blottingAll lanes: Anti ALDH3A1 (AAA45493) at 0.5ug/mlLane 1: SMMC Whole Cell Lysate at 40ugLane 2: HELA Whole Cell Lysate at 40ugLane 3: COLO320 Whole Cell Lysate at 40ugLane 4: MCF-7 Whole Cell Lysate at 40ugLane 5: A549 Whole Cell Lysate at 40ugPredicted bind size: 50KDObserved bind size: 50KD

ADDITIONAL INFORMATION

Related Product Information for anti-ALDH3A1 antibody

**Description:** Rabbit IgG polyclonal antibody for Aldehyde dehydrogenase, dimeric NADP-preferring(ALDH3A1) detection. Tested with WB, IHC-P in Human.

**Background:** ALDH3A1(Aldehyde Dehydrogenase, Family 3, Subfamily A, Member 1), also known as ALDH3, is an enzyme that in humans is encoded by the ALDH3A1 gene. By in situ hybridization, Hiraoka et al.(1995) mapped the ALDH3 gene to 17p11.2. ALDHs play a major role in the detoxification of alcohol-derived acetaldehyde. They are involved in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation. This protein preferentially oxidizes aromatic aldehyde substrates. It may play a role in the oxidation of toxic aldehydes.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 311033473                                                                                                                                          |
| NCBI GeneID                      | 218                                                                                                                                                |
| UniProt Accession #              | P30838; Q9BT37; A8K828                                                                                                                             |
| 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; stomach aldehyde dehydrogenase; aldehyde dehydrogenase type III; aldehyde dehydrogenase isozyme 3 |
| UniProt Protein Name             | Aldehyde dehydrogenase, dimeric NADP-preferring                                                                                                    |
| UniProt Gene Name                | ALDH3A1                                                                                                                                            |
| 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.

