

## Recombinant ALDH1A1 Monoclonal Antibody

catalog number: **E-AB-81434**

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

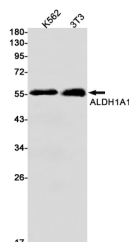
### Description

|                     |   |
|---------------------|---|
| <b>Reactivity</b>   | Human;Mouse   |
| <b>Immunogen</b>    | A synthetic peptide of human ALDH1A1  |
| <b>Host</b>         | Rabbit  |
| <b>Isotype</b>      | IgG   |
| <b>Clone</b>        | R09-3B9   |
| <b>Purification</b> | Affinity Purified   |
| <b>Buffer</b>       | 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.05% stabilizer and 0.05% protective protein. |

### Applications

| Applications | Recommended Dilution |
|--------------|----------------------|
| <b>WB</b>    | 1:500-1:1000         |
| <b>IHC</b>   | 1:20-1:100           |

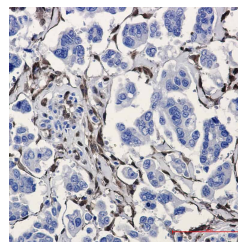
### Data



Western blot detection of ALDH1A1 in K562,3T3 cell lysates using ALDH1A1 Rabbit mAb(1:1000 diluted).Predicted band size:55kDa.Observed band size:55kDa.

**Observed-MV:55 kDa**

**Calculated-MV:55 kDa**



Immunohistochemistry of ALDH1A1 in paraffin-embedded Human Cholangiocarcinoma using ALDH1A1 Rabbit mAb at dilution 1:20

### Preparation & Storage

|                 |  |
|-----------------|--|
| <b>Storage</b>  | Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.  |
| <b>Shipping</b> | The product is shipped with ice pack,upon receipt,store it immediately at the temperature recommended. |

### Background

ALDH1A1(Aldehyde dehydrogenase family 1 member A1 ),also named as ALDC,ALDH1 and PUMB1,belongs to the aldehyde dehydrogenase family. The ALDH1A1 gene encodes a liver cytosolic isoform of acetaldehyde dehydrogenase,an enzyme involved in the major pathway of alcohol metabolism after alcohol dehydrogenase. ALDH1A1 plays a critical role in protection against oxidative stress-induced cytotoxicity in lens epithelial cells. And it is important for multiple biological activities including drug resistance,cell differentiation,and oxidative stress response. As a novel cancer stem cell marker,ALDH1A1 can be used for tumors whose corresponding normal tissues express ALDH1A1 in relatively restricted or limited levels such as breast,lung,ovarian or colon cancer.

### For Research Use Only