

# ALDH3A1 Rabbit Polyclonal Antibody



CAB13275

## Product Information

### Size:

20uL, 50uL, 100uL, 200uL

### Observed MW:

55kDa

### Calculated MW:

50kDa

### Applications:

WB IHC IF

### Reactivity:

Human, Mouse

## Antibody Information

### Recommended dilutions:

WB 1:500 - 1:2000 IHC 1:50  
- 1:200 IF 1:50 - 1:200

### Source:

Rabbit

### Isotype:

IgG

### Purification:

Affinity purification

## Protein Background

Aldehyde dehydrogenases oxidize various aldehydes to the corresponding acids. They are involved in the detoxification of alcohol-derived acetaldehyde and in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation. The enzyme encoded by this gene 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. The gene is located within the Smith-Magenis syndrome region on chromosome 17. Multiple alternatively spliced variants, encoding the same protein, have been identified.

## Immunogen information

### Gene ID:

218

### Uniprot

P30838

### Synonyms:

ALDH3A1; ALDH3; ALDHIII

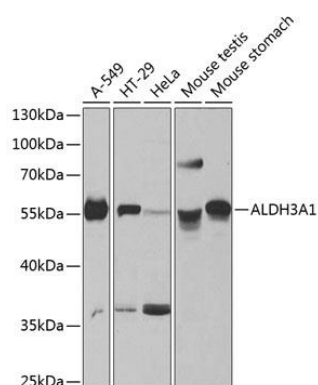
### Immunogen:

Recombinant fusion protein containing a sequence corresponding to amino acids 1-300 of human ALDH3A1 (NP\_001128640.1).

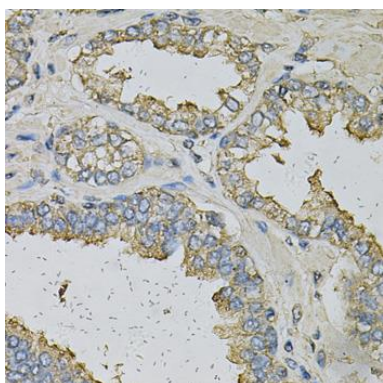
### Storage:

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

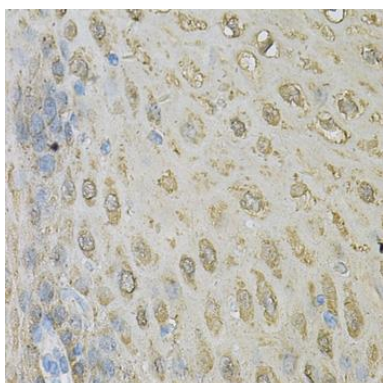
## Product Images



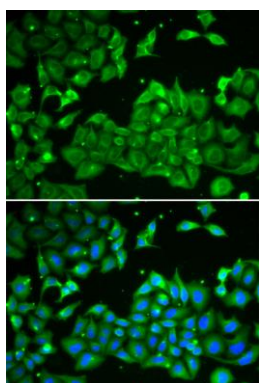
Western blot analysis of extracts of various cell lines, using ALDH3A1 antibody (CAB13275) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 10s.



Immunohistochemistry of paraffin-embedded human prostate using ALDH3A1 Antibody (CAB13275) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human esophagus using ALDH3A1 Antibody (CAB13275) at dilution of 1:100 (40x lens).



Immunofluorescence analysis of HeLa cells using ALDH3A1 antibody (CAB13275). Blue: DAPI for nuclear staining.