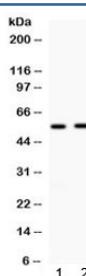


## ALDH3A2 Antibody (R32467)

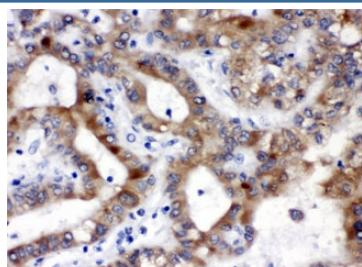
Catalog No.	Formulation	Size
R32467	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Rat
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity
<b>Buffer</b>	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
<b>UniProt</b>	P51648
<b>Localization</b>	Cytoplasmic
<b>Applications</b>	Western Blot : 0.5-1ug/ml IHC (FFPE) : 1-2ug/ml
<b>Limitations</b>	This ALDH3A2 antibody is available for research use only.



Western blot testing of 1) rat liver and 2) human 22RV1 lysate with ALDH3A2 antibody at 0.5ug/ml. Predicted molecular weight: ~54kDa.



IHC testing of FFPE human liver cancer tissue with ALDH3A2 antibody at 1ug/ml. HIER: steam in pH6 citrate buffer and allow to cool prior to staining.

## Description

Fatty aldehyde dehydrogenase (or Long-chain-aldehyde dehydrogenase) is an aldehyde dehydrogenase enzyme that in human is encoded in the ALDH3A2 gene on chromosome 17. ALDH3A2 catalyzes the oxidation of long-chain aliphatic aldehydes into fatty acids. It is known to act on a variety of both saturated and unsaturated aliphatic aldehydes between 6 to 24 carbons in length, as well as dihydrophytal, a 20-carbon branched chain aldehyde. It requires NAD<sup>+</sup> as a co-factor. The encoded enzyme is responsible for conversion of the sphingosine 1-phosphate (S1P) degradation product hexadecenal to hexadecenoic acid. ALD3H2 is expressed in the human liver and has been found to localize the microsome fraction inside the cell.

## Application Notes

Optimal dilution of the ALDH3A2 antibody should be determined by the researcher.

## Immunogen

Amino acids M1-Q100 were used as the immunogen for the ALDH3A2 antibody.

## Storage

Prior to reconstitution, store at 4°C. After reconstitution, the ALDH3A2 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.