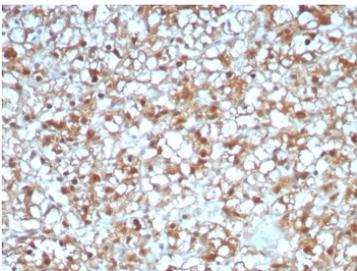


## ALDH1L1 Antibody [clone ALDH1L1/7969] (V4989)

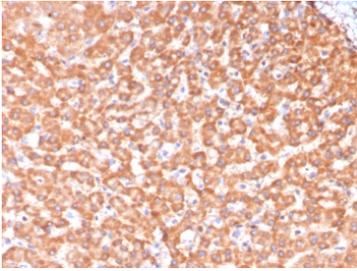
Catalog No.	Formulation	Size
V4989-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4989-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4989SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

[Bulk quote request](#)

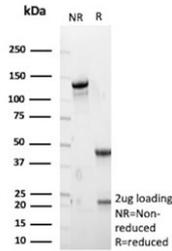
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2, kappa
<b>Clone Name</b>	ALDH1L1/7969
<b>Purity</b>	Protein A/G affinity
<b>UniProt</b>	O75891
<b>Localization</b>	Cytoplasm
<b>Applications</b>	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
<b>Limitations</b>	This ALDH1L1 antibody is available for research use only.



IHC staining of FFPE human renal cell carcinoma tissue with ALDH1L1 antibody (clone ALDH1L1/7969). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human hepatocellular carcinoma tissue with ADH1L1 antibody (clone ALDH1L1/7969). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free ALDH1L1 antibody (clone ALDH1L1/7969) as confirmation of integrity and purity.

## Description

Aldehyde dehydrogenases (ALDHs) mediate NADP<sup>+</sup>-dependent oxidation of aldehydes into acids during detoxification of alcohol-derived acetaldehyde, lipid peroxidation and metabolism of corticosteroids, biogenic amines and neurotransmitters. ALDH1L1 (aldehyde dehydrogenase 1 family member L1), also known as FTHFD or 10-FTHFD (10-formyltetrahydrofolate dehydrogenase), is a cytosolic protein that is developmentally regulated in the cerebellum. ALDH1L1 binds to folate and catalyzes the conversion of 10-formyltetrahydrofolate (10-FTHF) to tetrahydrofolate (THF). This suggests a possible role for ALDH1L1 in the regulation of cellular THF levels as well as in the inhibition of cell proliferation (as 10-FTHF is essential for the synthesis of purine). In addition, the overexpression of ALDH1L1 can restrict cell proliferation in vitro.

## Application Notes

Optimal dilution of the ALDH1L1 antibody should be determined by the researcher.

## Immunogen

A recombinant fragment of human ALDH1L1 protein was used as the immunogen for the ALDH1L1 antibody.

## Storage

Aliquot the ALDH1L1 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.