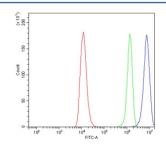


# ALDH3 Antibody / ALDH3A1 / Aldehyde dehydrogenase 3 (RQ7035)

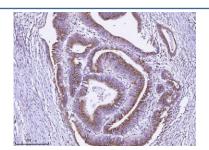
Catalog No.	Formulation	Size
RQ7035	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

## **Bulk quote request**

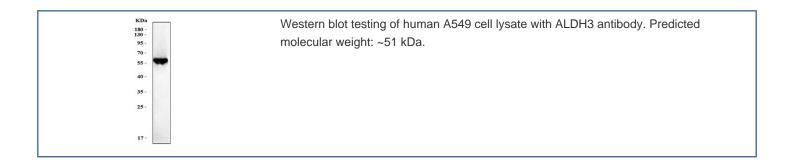
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P30838
Applications	Western Blot: 0.5-1 ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Flow Cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This ALDH3 antibody is available for research use only.



Flow cytometry testing of human RT4 cells with ALDH3 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= ALDH3 antibody.



IHC staining of FFPE human rectal cancer tissue with ALDH3 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



#### **Description**

Aldehyde dehydrogenase, dimeric NADP-preferring is an enzyme that in humans is encoded by the ALDH3A1 gene. 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.

#### **Application Notes**

Optimal dilution of the ALDH3 antibody should be determined by the researcher.

#### **Immunogen**

Recombinant human protein (amino acids E62-H101) was used as the immunogen for the ALDH3 antibody.

### **Storage**

After reconstitution, the ALDH3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.