

## ALDH1A2 Rabbit Polyclonal Antibody

Catalog No: #55237

Package Size: #55237-1 50ul #55237-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

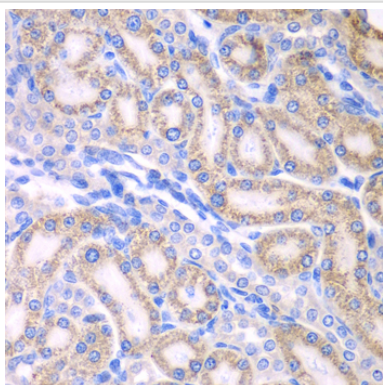
## Description

|                       |                                                            |
|-----------------------|------------------------------------------------------------|
| Product Name          | ALDH1A2 Rabbit Polyclonal Antibody                         |
| Host Species          | Rabbit                                                     |
| Clonality             | Polyclonal                                                 |
| Isotype               | IgG                                                        |
| Purification          | Affinity purification                                      |
| Applications          | WB,IHC,IF                                                  |
| Species Reactivity    | Human,Mouse,Rat                                            |
| Immunogen Description | Recombinant fusion protein of human ALDH1A2 (NP_733797.1). |
| Conjugates            | Unconjugated                                               |
| Other Names           | ALDH1A2;RALDH(II);RALDH2;RALDH2-T                          |
| Accession No.         | Swiss Prot:O94788GeneID:8854                               |
| Calculated MW         | 46kDa/53kDa/54kDa/56kDa                                    |
| SDS-PAGE MW           | 57kDa                                                      |
| Formulation           | Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.    |
| Storage               | Store at -20°C. Avoid freeze / thaw cycles.                |

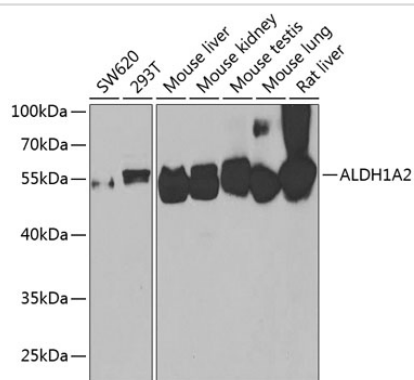
## Application Details

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

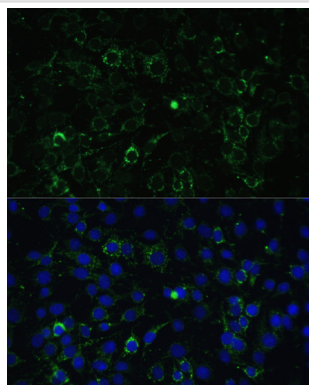
## Images



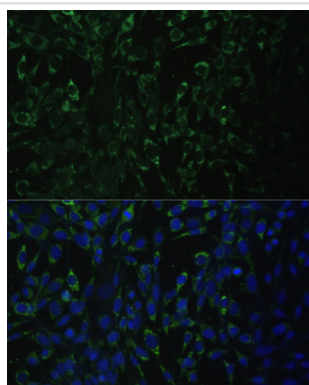
Immunohistochemistry of paraffin-embedded rat kidney using ALDH1A2 at dilution of 1:100 (40x lens).



Western blot analysis of extracts of various cell lines, using ALDH1A2 at 1:1000 dilution.



Immunofluorescence analysis of C6 cells using ALDH1A2 at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH-3T3 cells using ALDH1A2 at dilution of 1:100. Blue: DAPI for nuclear staining.

## Background

This protein belongs to the aldehyde dehydrogenase family of proteins. The product of this gene is an enzyme that catalyzes the synthesis of retinoic acid (RA) from retinaldehyde. Retinoic acid, the active derivative of vitamin A (retinol), is a hormonal signaling molecule that functions in developing and adult tissues. The studies of a similar mouse gene suggest that this enzyme and the cytochrome CYP26A1, concurrently establish local embryonic retinoic acid levels which facilitate posterior organ development and prevent spina bifida. Four transcript variants encoding distinct isoforms have been identified for this gene.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.