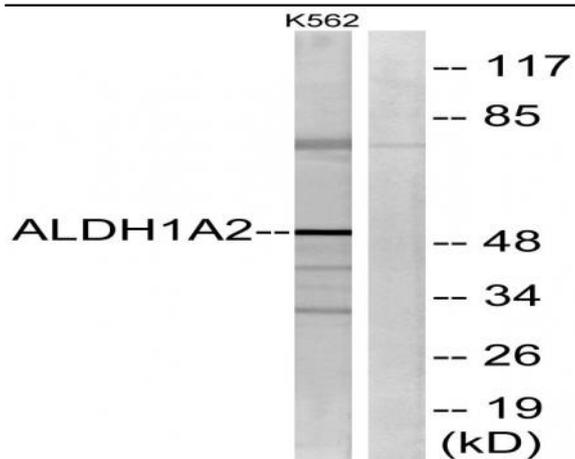


ALDH1A2 Polyclonal Antibody

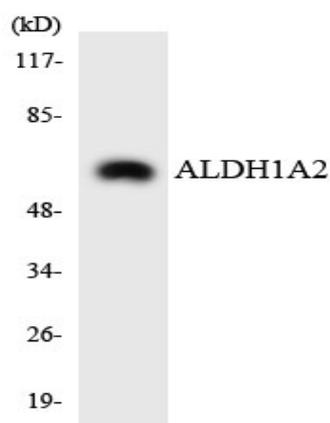
| | |
|------------------------------|---|
| Catalog No : | YT0188 |
| Reactivity : | Human;Mouse;Rat |
| Applications : | WB;IHC;IF;ELISA |
| Target : | ALDH1A2 |
| Fields : | >>Retinol metabolism;>>Metabolic pathways |
| Gene Name : | ALDH1A2 |
| Protein Name : | Retinal dehydrogenase 2 |
| Human Gene Id : | 8854 |
| Human Swiss Prot No : | O94788 |
| Mouse Gene Id : | 19378 |
| Mouse Swiss Prot No : | Q62148 |
| Rat Gene Id : | 116676 |
| Rat Swiss Prot No : | Q63639 |
| Immunogen : | The antiserum was produced against synthesized peptide derived from human ALDH1A2. AA range:412-461 |
| Specificity : | ALDH1A2 Polyclonal Antibody detects endogenous levels of ALDH1A2 protein. |
| Formulation : | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Source : | Polyclonal, Rabbit,IgG |
| Dilution : | WB 1:500 - 1:2000.IHC:1:50-300 ELISA: 1:20000.. IF 1:50-200 |

| | |
|-------------------------------|--|
| Purification : | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Concentration : | 1 mg/ml |
| Storage Stability : | -15°C to -25°C/1 year(Do not lower than -25°C) |
| Observed Band : | 52kD |
| Cell Pathway : | Retinol metabolism; |
| Background : | <p>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. [provided by RefSeq, May 2011],</p> |
| Function : | <p>catalytic activity:Retinal + NAD(+) + H(2)O = retinoate + NADH.,function:Recognizes as substrates free retinal and cellular retinol-binding protein-bound retinal. Does metabolize octanal and decanal but does not metabolize citral, benzaldehyde, acetaldehyde and propanal efficiently.,pathway:Cofactor metabolism; retinol metabolism.,similarity:Belongs to the aldehyde dehydrogenase family.,subunit:Homotetramer.,</p> |
| Subcellular Location : | Cytoplasm. |
| Expression : | Testis,Uterus, |
| Sort : | 1885 |
| No4 : | 1 |
| Host : | Rabbit |
| Modifications : | Unmodified |

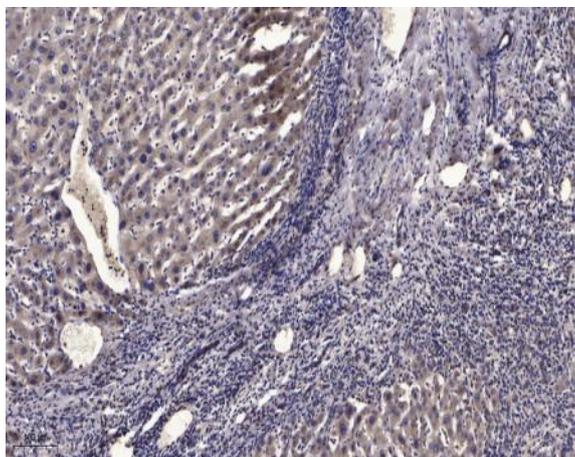
Products Images



Western blot analysis of lysates from K562 cells, using ALDH1A2 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from COLO205 cells using ALDH1A2 antibody.



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).