

## Product datasheet for **AP14102PU-N**

### Isocitrate dehydrogenase (IDH1) Rabbit Polyclonal Antibody

#### Product data:

|                       |  |
|-----------------------|--|
| Product Type:         | Primary Antibodies   |
| Applications:         | IHC, WB  |
| Recommended Dilution: | ELISA: 1/1,000.<br>Western blotting: 1/50 - 1/100.   |
| Reactivity:           | Human  |
| Host:                 | Rabbit   |
| Isotype:              | Ig   |
| Clonality:            | Polyclonal   |
| Immunogen:            | This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the Center region of human IDH1. |
| Specificity:          | This antibody reacts to IDH1.  |
| Formulation:          | PBS with 0.09% (W/V) sodium azide<br>State: Purified<br>State: Liquid purified Ig  |
| Concentration:        | lot specific   |
| Purification:         | Prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS  |
| Conjugation:          | Unconjugated   |
| Storage:              | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.        |
| Stability:            | Shelf life: one year from despatch.  |
| Gene Name:            | isocitrate dehydrogenase (NADP(+)) 1, cytosolic  |
| Database Link:        | <a href="#">Entrez Gene 3417 Human</a><br><a href="#">O75874</a>   |



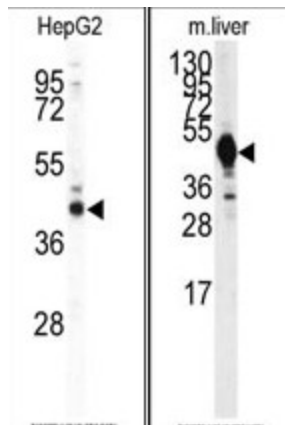
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**Background:**

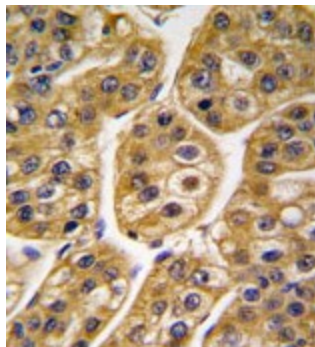
IDH1 belongs to two distinct subclasses. The protein is the NADP(+)-dependent isocitrate dehydrogenase found in the cytoplasm and peroxisomes. This protein contains the PTS-1 peroxisomal targeting signal sequence. The presence of this enzyme in peroxisomes suggests roles in the regeneration of NADPH for intraperoxisomal reductions, such as the conversion of 2, 4-dienoyl-CoAs to 3-enoyl-CoAs, as well as in peroxisomal reactions that consume 2-oxoglutarate, namely the alpha-hydroxylation of phytanic acid. The cytoplasmic enzyme serves a significant role in cytoplasmic NADPH production.

**Synonyms:**

PICD, Cytosolic NADP-isocitrate dehydrogenase, ICDH, IDP, Oxalosuccinate decarboxylase

**Product images:**


(LEFT) Western blot analysis of IDH1 antibody (Center) in HepG2 cell line lysates (35ug/lane). IDH1 (arrow) was detected using the purified Pab. (RIGHT) Western blot analysis of IDH1 antibody (Center) in mouse liver tissue lysates (35ug/lane). IDH1 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with IDH1 antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.