

## Product datasheet for **AP21327PU-N**

### Isocitrate dehydrogenase / IDH Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, ID, IF, IP, R, WB
Recommended Dilution:	<b>Immunoprecipiation.</b> Can be Used: <ul style="list-style-type: none"><li>• In precipitating and non-precipitating antibody-binding assays (such as e.g., ELISA and Western blotting and Immunofluorescence or Histochemical techniques).</li><li>• To prepare an insoluble immuno-affinity adsorbent, for labelling with a marker of choice.</li></ul> <i>Recommended Working Dilutions:</i> Non-precipitating antibody-binding techniques: 1/1,000-1/30,000.
Reactivity:	Porcine
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Isocitrate Dehydrogenase isolated and purified from Porcine heart. Freund's complete adjuvant is used in the first step of the immunization procedure.
Specificity:	Isocitrate Dehydrogenase isolated and purified from Porcine heart. The reagents were evaluated for potency, purity and specificity using most or all of the following techniques: Immunoelectrophoresis, Cross-Immunoelectrophoresis, Single Radial Immunodiffusion (Ouchterlony), block titration, ELISA, Immunoblotting and enzyme inhibition. Cross-reactivities against enzymes of other sources may occur but have not been determined.
Formulation:	PBS, pH 7.2 stabilized with Dextran, without preservatives and foreign proteins State: Aff - Purified State: Lyophilized purified hyperimmune IgG fraction
Reconstitution Method:	Restore by adding 0.5 ml sterile distilled water
Concentration:	lot specific
Purification:	Solid Phase Affinity Chromatography
Conjugation:	Unconjugated



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<b>Storage:</b>	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Database Link:</b>	<a href="#">P20304</a>
<b>Background:</b>	<p>Isocitrate dehydrogenase is an enzyme involved in the citric acid cycle. It is 416 amino acids long with a molecular weight of approximately 45 kDa.</p> <p>Isocitrate dehydrogenase enzymes catalyze the oxidative decarboxylation of isocitrate to produce alpha ketoglutarate. The human genome has 5 IDH genes coding for 3 IDH enzymes. The IDH1 and IDH2 require nicotinamide adeninedinucleotide phosphate (NADP) as co-substrate, whereas IDH3 require nicotinamide adenine dinucleotide (NAD). The IDH2 and 3 are localized in mitochondria and are actively involved in the citric acid cycle (TCA) for energy production in contrast, IDH1 is localized in cytoplasm and peroxisomes where it generates NADPH, reduced form of NADP for biosynthetic and other types of reaction. Since alpha KG and NADPH both are intermediately substrate for a number of cellular process, which allows the possibility of oncogenic or tumor suppressive activities of IDH1.</p>
<b>Synonyms:</b>	PICD, Cytosolic NADP-isocitrate dehydrogenase, ICDH, IDP, Oxalosuccinate decarboxylase