Datasheet for ABIN568270

anti-Isocitrate Dehydrogenase antibody

Go to Product page

Overview

Quantity:	10 mg
Target:	Isocitrate Dehydrogenase (IDH)
Reactivity:	Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Isocitrate Dehydrogenase antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP), Enzyme Immunoassay (EIA), Dot Blot (DB), Immunodiffusion (ID), Radioimmunoassay (RIA)

Product Details

Immunogen:	Isocitrate Dehydrogenase isolated and purified from Porcine heart. Freund's complete adjuvant is used in the first step of the immunization procedure.
Isotype:	IgG
Purification:	Ammonium Sulphate Precipitation and Ion Exchange Chromatography

Target Details

Target:	Isocitrate Dehydrogenase (IDH)
Alternative Name:	Isocitrate Dehydrogenase / IDH (IDH Products)
Background:	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. Isocitrate dehydrogenase enzymes catalyze the oxidative decarboxylation of isocitrate to produce alfa ketoglutarate. The human

Target Details

	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 alfa 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.Synonyms: Cytosolic NADP-isocitrate dehydrogenase, ICDH, IDP, NADP(+)-specific ICDH, Oxalosuccinate decarboxylase, PICD, cytoplasmic Isocitrate dehydrogenase [NADP]
Gene ID:	9823
UniProt:	P20304

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Reconstitution:	Restore by adding 1.0 mL sterile distilled water
Concentration:	10 mg/mL
Buffer:	PBS, pH 7.2 without preservatives and foreign proteins
Preservative:	Without preservative
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody lyophilized at 2-8 °C and reconstituted at 2-8 °C for one week or (in aliquots) at -20 °C for longer. If a slight precipitation occurs upon storage, this should be removed by centrifugation.