Datasheet for ABIN1421650

anti-IDH1 antibody (AA 70-115) (HRP)

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Overview

Quantity:	100 µL
Target:	IDH1
Binding Specificity:	AA 70-115
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IDH1 antibody is conjugated to HRP
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human IDH1/Isocitrate dehydrogenase
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	IDH1
Alternative Name:	IDH1 (IDH1 Products)
Background:	Synonyms: Cytosolic NADP isocitrate dehydrogenase, Cytosolic NADP-isocitrate dehydrogenase, ICDH, IDCD, IDH, IDHC, Idh1, IDHC_HUMAN, IDP, IDPC, Isocitrate

Target Details

	dehydrogenase [NADP] cytoplasmic, Isocitrate dehydrogenase 1 NADP+ soluble, NADP dependent isocitrate dehydrogenase cytosolic, NADP dependent isocitrate dehydrogenase peroxisomal, NADP+-specic ICDH, Oxalosuccinate decarboxylase, PICD. Background: The Isocitrate dehydrogenase cytoplasmic enzyme is a homodimer of 416 residues that belongs to the isocitrate and isopropylmalate dehydrogenases family. IDHC catalyzes the third step of the citric acid cycle, which involves the oxidative decarboxylation of isocitrate, forming ?ketoglutarate and CO2 in a two step reaction. The first step involves the oxidation of isocitrate to the intermediate oxalosuccinate, while the second step involves the production of ?ketoglutarate. During this process, either NADH or NADPH is produced along with CO2. Ca2+ can bind to IDHC as a complex with isocitrate, acting as a competitive inhibitor of Mg2+. The IDHC enzyme is inactivated by phosphorylation at Ser-113 and contains a clasp-like domain wherein both polypeptide chains in the dimer interlock. IDHC is expressed in a wide range of species and also in organisms that lack a complete citric acid cycle.
Gene ID:	3417
UniProt:	O75874
Pathways:	Warburg Effect

Application Details

Application Notes:	WB 1:300-5000 IHC-P 1:200-400
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Handling Advice:	Do NOT add Sodium Azide! Use of Sodium Azide will inhibit enzyme activity of horseradish peroxidase.

Handling

Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months