ARG55897
anti-IDH2 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes IDH2
Tested Reactivity	Hu, Ms
Predict Reactivity	Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	IDH2
Species	Human
Immunogen	Synthetic peptide (17 aa) within the first 50 aa of Human IDH2.
Conjugation	Un-conjugated
Alternate Names	D2HGA2; IDH; Isocitrate dehydrogenase [NADP], mitochondrial; IDPM; EC 1.1.1.42; mNADP-IDH; ICD-M; IDP; IDHM; NADP; Oxalosuccinate decarboxylase

Application Instructions

Application table

Application	Dilution
ICC/IF	20 µg/ml
IHC-P	5 µg/ml
WB	1 - 2 µg/ml

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	Human heart tissue lysate

Properties

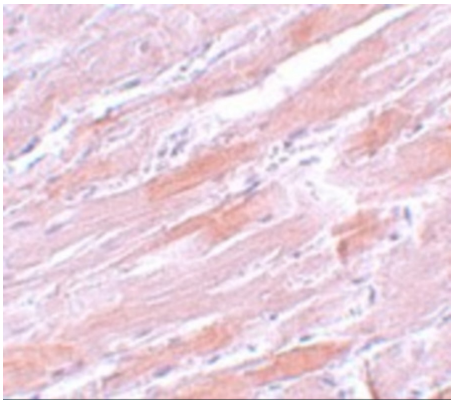
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS and 0.02% Sodium azide
Preservative	0.02% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

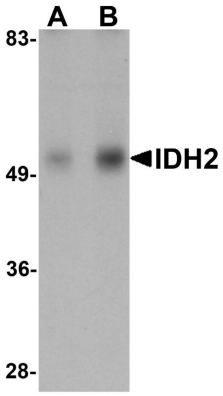
Database links	GeneID: 269951 Mouse GeneID: 3418 Human Swiss-port # P48735 Human Swiss-port # P54071 Mouse
Gene Symbol	IDH2
Gene Full Name	isocitrate dehydrogenase 2 (NADP+), mitochondrial
Background	Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. These enzymes belong to two distinct subclasses, one of which utilizes NAD(+) as the electron acceptor and the other NADP(+). Five isocitrate dehydrogenases have been reported: three NAD(+)-dependent isocitrate dehydrogenases, which localize to the mitochondrial matrix, and two NADP(+)-dependent isocitrate dehydrogenases, one of which is mitochondrial and the other predominantly cytosolic. Each NADP(+)-dependent isozyme is a homodimer. The protein encoded by this gene is the NADP(+)-dependent isocitrate dehydrogenase found in the mitochondria. It plays a role in intermediary metabolism and energy production. This protein may tightly associate or interact with the pyruvate dehydrogenase complex. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014]
Function	Plays a role in intermediary metabolism and energy production. It may tightly associate or interact with the pyruvate dehydrogenase complex. [UniProt]
Calculated Mw	51 kDa
PTM	Acetylation at Lys-413 dramatically reduces catalytic activity. Deacetylated by SIRT3.

Images



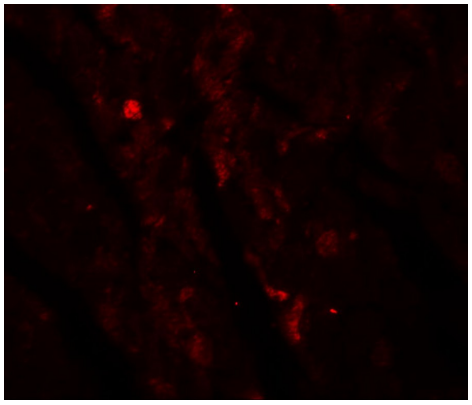
ARG55897 anti-IDH2 antibody IHC-P image

Immunohistochemistry: Mouse heart tissue stained with ARG55897 anti-IDH2 antibody at 5 µg/ml dilution.



ARG55897 anti-IDH2 antibody WB image

Western blot: Human heart tissue lysate stained with ARG55897 anti-IDH2 antibody at (A) 1 and (B) 2 µg/ml dilution.



ARG55897 anti-IDH2 antibody IF image

Immunofluorescence: Mouse heart tissue stained with ARG55897 anti-IDH2 antibody at 20 µg/ml dilution.