ARG40409
anti-PDP1 antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes PDP1
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PDP1
Species	Human
Immunogen	Fusion protein of Human PDP1.
Conjugation	Un-conjugated
Alternate Names	PDPC; PDPC 1; PDP; EC 3.1.3.43; Protein phosphatase 2C; PDH; PDP 1; PPM2C; [Pyruvate dehydrogenase [acetyl-transferring]]-phosphatase 1, mitochondrial; Pyruvate dehydrogenase phosphatase catalytic subunit 1

Application Instructions

Application table

Application	Dilution
IHC-P	1:25 - 1:100
WB	1:200 - 1:1000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	WB: Human bladder carcinoma tissue. IHC-P: Human thyroid cancer and Human cervical cancer.
Observed Size	~ 60 kDa

Properties

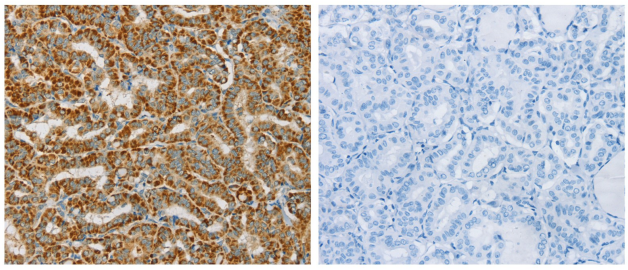
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.4), 0.05% Sodium azide and 40% Glycerol.
Preservative	0.05% Sodium azide
Stabilizer	40% Glycerol
Concentration	1.3 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. 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

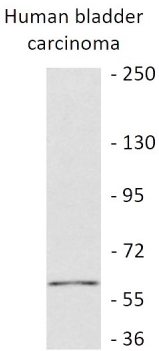
Gene Symbol	PDP1
Gene Full Name	pyruvate dehyrogenase phosphatase catalytic subunit 1
Background	Pyruvate dehydrogenase (E1) is one of the three components (E1, E2, and E3) of the large pyruvate dehydrogenase complex. Pyruvate dehydrogenase kinases catalyze phosphorylation of serine residues of E1 to inactivate the E1 component and inhibit the complex. Pyruvate dehydrogenase phosphatases catalyze the dephosphorylation and activation of the E1 component to reverse the effects of pyruvate dehydrogenase kinases. Pyruvate dehydrogenase phosphatase is a heterodimer consisting of catalytic and regulatory subunits. Two catalytic subunits have been reported; one is predominantly expressed in skeletal muscle and another one is is much more abundant in the liver. The catalytic subunit, encoded by this gene, is the former, and belongs to the protein phosphatase 2C (PP2C) superfamily. Along with the pyruvate dehydrogenase complex and pyruvate dehydrogenase kinases, this enzyme is located in the mitochondrial matrix. Mutation in this gene causes pyruvate dehydrogenase phosphatase deficiency. Multiple alternatively spliced transcript variants encoding different isoforms have been identified.[provided by RefSeq, Jun 2009]
Function	Catalyzes the dephosphorylation and concomitant reactivation of the alpha subunit of the E1 component of the pyruvate dehydrogenase complex. [UniProt]
Calculated Mw	61 kDa
Cellular Localization	Mitochondrion matrix. [UniProt]

Images



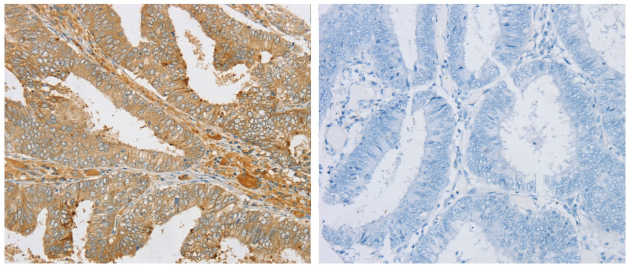
ARG40409 anti-PDP1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human thyroid cancer tissue stained with ARG40409 anti-PDP1 antibody (left) at 1:25 dilution, or the same antibody pre-incubated with fusion protein (right).



ARG40409 anti-PDP1 antibody WB image

Western blot: 40 µg of Human bladder carcinoma tissue lysate stained with ARG40409 anti-PDP1 antibody at 1:300 dilution.



ARG40409 anti-PDP1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human cervical cancer tissue stained with ARG40409 anti-PDP1 antibody (left) at 1:25 dilution, or the same antibody pre-incubated with fusion protein (right).