ARG63928
anti-PDK1 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes PDK1
Tested Reactivity	Rat
Predict Reactivity	Hu, Ms, Cow, Dog, Pig
Tested Application	WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	PDK1
Species	Human
Immunogen	C-DFKDKSAEDAK
Conjugation	Un-conjugated
Alternate Names	EC 2.7.11.2; Pyruvate dehydrogenase kinase isoform 1; [Pyruvate dehydrogenase; acetyl-transferring; PDH kinase 1

Application Instructions

Application table

Application	Dilution
WB	1 - 3 µg/ml

Application Note

WB: Recommend incubate at RT for 1h.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

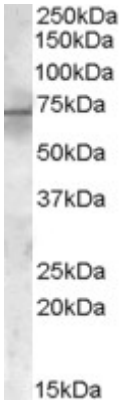
Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 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

Background	Pyruvate dehydrogenase (PDH) is a mitochondrial multienzyme complex that catalyzes the oxidative decarboxylation of pyruvate and is one of the major enzymes responsible for the regulation of homeostasis of carbohydrate fuels in mammals. The enzymatic activity is regulated by a phosphorylation/dephosphorylation cycle. Phosphorylation of PDH by a specific pyruvate dehydrogenase kinase (PDK) results in inactivation. [provided by RefSeq, Jul 2008]
Research Area	Cancer antibody; Metabolism antibody; Signaling Transduction antibody
Calculated Mw	49 kDa
PTM	Phosphorylated by constitutively activated ABL1, FGFR1, FLT3 and JAK2 (in vitro), and this may also occur in cancer cells that express constitutively activated ABL1, FGFR1, FLT3 and JAK2. Phosphorylation at Tyr-243 and Tyr-244 strongly increases kinase activity, while phosphorylation at Tyr-136 has a lesser effect.

Images



ARG63928 anti-PDK1 antibody WB image

Western Blot: Rat Heart lysate (35 µg protein in RIPA buffer) stained with ARG63928 anti-PDK1 antibody at 1 µg/ml dilution.