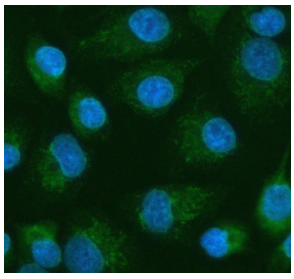
PDK2 Antibody / Pyruvate dehydrogenase kinase 2 (R31101)

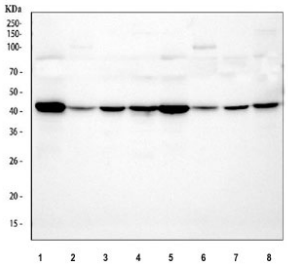
Catalog No.	Formulation	Size
R31101	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

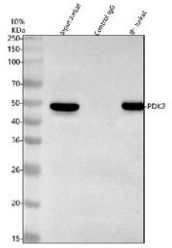
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q15119
Localization	Cytoplasm (Mitochondria)
Applications	Western blot: 0.5-1ug/ml Immunofluorescence: 5ug/ml Immunoprecipitation: 2ug/500ug of lysate Flow cytometry: 1-3ug/million cells
Limitations	This PDK2 antibody is available for research use only.



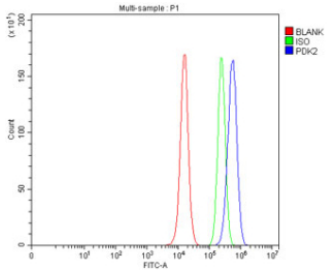
Immunofluorescent staining of FFPE human A549 cells with PDK2 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing 1) rat heart, 2) rat brain, 3) rat skeletal muscle, 4) rat kidney, 5) mouse heart, 6) mouse brain, 7) mouse skeletal muscle and 8) mouse kidney tissue lysate with PDK2 antibody. Predicted molecular weight ~46 kDa.



Immunoprecipitation of PDK2 protein from 500ug of human Jurkat whole cell lysate with 2ug of PDK2 antibody.



Flow cytometry testing of fixed and permeabilized human PC-3 cells with PDK2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PDK2 antibody.

Description

Pyruvate dehydrogenase kinase isoenzyme 2, is an enzyme that in humans is encoded by the PDK2 gene. To find human PDKs, Gudi et al.(1995) used oligonucleotide primers to screen a human liver cDNA library by PCR. The human PDK2 gene encodes a protein with a predicted molecular mass of 46,181 Da that shares 96% identity with that of the rat gene. Northern blot analysis showed that the PDK2 message was found in many tissues, with the highest level in heart and skeletal muscle, intermediate levels in brain, kidney, pancreas and liver, and low levels in placenta and lung.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the PDK2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human PDK2 (WRHYQTIQEAGDWC) was used as the immunogen for this PDK2 antibody (100% homologous in human, mouse and rat).

Storage

After reconstitution, the PDK2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Copyright © NSJ Bioreagents. All rights reserved.