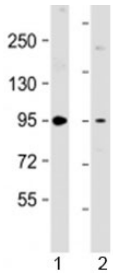
PKD2 Antibody / Protein kinase D2 (F53969)

Catalog No.	Formulation	Size
F53969-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F53969-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Predicted Reactivity	Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q9BZL6
Applications	Western blot: 1:500-2000
Limitations	This PKD2 Antibody / Protein kinase D2 is available for research use only.



Western blot testing of 1) human brain lysate and 2) mouse NIH3T3 cell lysate with PKD2 antibody at 1:2000. Predicted molecular weight: 97 kDa.

Description

PKD2 Antibody recognizes Protein Kinase D2 (PRKD2), a member of the Protein Kinase D family of serine threonine kinases that functions downstream of Protein Kinase C to regulate numerous intracellular signaling pathways. PKD2 is activated by diacylglycerol and phosphorylation events initiated by extracellular stimuli, allowing it to coordinate cell proliferation, survival, migration, secretion, and stress responses. Because of its central role in signal transduction, PKD2 Antibody is widely used to investigate kinase signaling, vesicle trafficking, cardiovascular biology, immune regulation, and

cancer.

PKD2 is broadly expressed in mammalian tissues and localizes primarily to the cytoplasm and Golgi apparatus, although activated kinase can also translocate to the nucleus. It regulates Golgi membrane fission, secretory vesicle transport, cytoskeletal organization, and transcriptional responses by phosphorylating numerous downstream substrates. PKD2 also participates in signaling pathways involving Nuclear Factor kappa B (NF-kappa-B), Mitogen-Activated Protein Kinase (MAPK), and histone deacetylases, integrating extracellular signals with changes in gene expression and cellular behavior.

Abnormal PKD2 activity has been associated with several pathological conditions, including breast cancer, prostate cancer, hematologic malignancies, cardiovascular disease, inflammatory disorders, and abnormal angiogenesis. Depending on the cellular context, PKD2 can promote cell survival, proliferation, migration, or resistance to apoptosis, making it an important target for studies of tumor biology and therapeutic intervention. In addition, its roles in endothelial cells, cardiomyocytes, and immune cells continue to expand the understanding of PKD2 function in normal physiology and disease. Consequently, PKD2 Antibody has become an important research tool for studies of kinase signaling and disease mechanisms.

NSJ Bioreagents offers highly validated PKD2 Antibody products for reliable detection of endogenous Protein Kinase D2 in human and animal tissues. These antibodies support investigations into intracellular signaling, vesicle trafficking, kinase regulation, cardiovascular biology, immunology, and oncology while providing dependable performance across western blotting, immunohistochemistry, immunofluorescence, immunoprecipitation, and other research applications.

For additional information on PRKD2 function, signaling pathways and validated research applications, visit our PRKD2 Antibody page.

Application Notes

Titration of the PKD2 Antibody / Protein kinase D2 may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 556-590 from the human protein was used as the immunogen for the PKD2 antibody.

Storage

Aliquot the PKD2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

PRKD2 antibody, Protein Kinase D2 antibody, nPKD2 antibody, Serine/Threonine Protein Kinase D2 antibody, Protein Kinase C Mu 2 antibody, PKD2 antibody

Copyright © NSJ Bioreagents. All rights reserved.