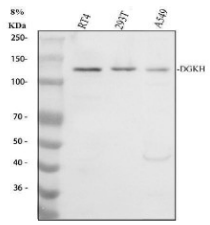
DGKH Antibody / Diacylglycerol Kinase Eta Antibody (FY13477)

Catalog No.	Formulation	Size
FY13477	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Species Reactivity	Human
Format	Lyophilized
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q86XP1
Applications	Western blot: 0.5-1ug/ml ELISA: 0.1-0.5ug/ml
Limitations	This DGKH Antibody / Diacylglycerol Kinase Eta Antibody is available for research use only.



DGKH Antibody Human Cancer Cell WB. Western blot analysis of DGKH Antibody using lysates from 1) human RT4 cells, 2) human 293T cells, and 3) human A549 cells. Samples (30 ug/lane) were separated on an 8% SDS-PAGE gel under reducing conditions, transferred to a nitrocellulose membrane, and detected with DGKH Antibody at 0.5 ug/mL followed by an HRP-conjugated secondary antibody and ECL detection. A specific band is observed at approximately 135 kDa in all three cell lines, consistent with the predicted molecular weight of DGKH. These results demonstrate that DGKH Antibody, a Diacylglycerol Kinase Eta Antibody, specifically detects endogenous DGKH across multiple human cancer cell lines.

Description

DGKH Antibody recognizes diacylglycerol kinase eta (DGKH), a member of the diacylglycerol kinase family that regulates lipid-mediated signal transduction by phosphorylating diacylglycerol to generate phosphatidic acid. Through this enzymatic conversion, DGKH controls the balance between two important lipid second messengers, thereby influencing numerous signaling pathways that regulate cell proliferation, differentiation, migration, cytoskeletal organization, membrane trafficking, and neuronal activity. DGKH is expressed in multiple tissues, with particularly high levels reported in the brain, reproductive organs, and several epithelial tissues. Owing to its central role in lipid signaling, DGKH Antibody

is widely used to investigate phosphoinositide metabolism, intracellular signaling, and cellular responses to extracellular stimuli.

DGKH contains multiple functional domains that regulate its localization and activity, including tandem cysteine-rich domains that bind diacylglycerol, a catalytic kinase domain responsible for phospholipid phosphorylation, and regulatory motifs that facilitate membrane association and protein interactions. By limiting intracellular diacylglycerol accumulation while generating phosphatidic acid, DGKH modulates signaling downstream of protein kinase C, Ras, phospholipase C, and other pathways involved in growth factor signaling and receptor activation. These activities influence neuronal communication, hormone signaling, vesicle dynamics, and cytoskeletal remodeling. Consequently, DGKH Antibody has become an important research tool for studies of lipid signaling, membrane biology, signal transduction, and cellular regulation.

Genetic and functional studies have implicated DGKH in several human diseases. Variants within the DGKH gene have been associated with bipolar disorder and other neuropsychiatric conditions, suggesting an important role in neuronal signaling and synaptic function. Altered DGKH expression has also been investigated in cancer, where dysregulated lipid signaling may contribute to abnormal cell proliferation, migration, invasion, and survival. In addition, DGKH has attracted interest in studies of endocrine signaling, reproductive biology, and metabolic regulation because of its ability to integrate receptor-mediated signaling with phospholipid metabolism. Researchers commonly employ DGKH Antibody in Western blotting, immunohistochemistry, immunofluorescence, immunoprecipitation, and related protein expression studies to characterize DGKH localization and abundance in normal and diseased tissues.

NSJ Bioreagents provides DGKH Antibody products that undergo validation for research applications to support reliable detection of this important lipid signaling enzyme. Whether investigating phospholipid metabolism, neuronal communication, receptor signaling, cancer biology, or membrane-associated signaling pathways, a high-quality Diacylglycerol Kinase Eta Antibody enables accurate characterization of DGKH expression and localization. As lipid signaling continues to emerge as a critical regulator of physiology and disease, DGKH Antibody remains an essential tool for studying the molecular mechanisms that coordinate diacylglycerol and phosphatidic acid metabolism.

Explore our Signal Transduction Antibodies page to discover additional antibodies against lipid kinases, protein kinases, signaling enzymes, and other regulators of intracellular signaling pathways that complement DGKH Antibody research.

Application Notes

Optimal dilution of the DGKH Antibody / Diacylglycerol Kinase Eta Antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human Diacylglycerol Kinase Eta protein (amino acids T533-K1150) was used as the immunogen for the DGKH Antibody.

Storage

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

Alternate Names

DGKH antibody, Diacylglycerol Kinase Eta antibody, DGK eta antibody, DAG Kinase Eta antibody, Diacylglycerol Kinase H antibody, Protein Kinase DGKH antibody

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