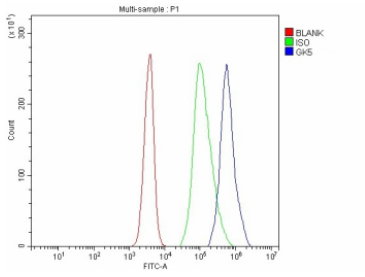
GK5 Antibody / Glycerol Kinase 5 Antibody (FY12424)

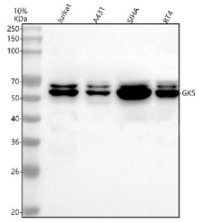
Catalog No.	Formulation	Size
FY12424	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml	100 ug

Bulk quote request

Availability	1-2 days
Species Reactivity	Human
Format	Lyophilized
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Immunogen affinity purified
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	Q6ZS86
Applications	Western Blot: 0.25-0.5ug/ml Flow cytometry: 1-3ug/million cells ELISA: 0.1-0.5ug/ml
Limitations	This GK5 Antibody / Glycerol Kinase 5 Antibody is available for research use only.



GK5 Antibody JK Cell FACS. Flow cytometry analysis of fixed and permeabilized JK cells stained with GK5 Antibody at 1 ug/10^6 cells, followed by a DyLight 488-conjugated secondary antibody. The blue histogram (GK5) exhibits a clear rightward shift relative to the rabbit IgG isotype control (green) and unstained cells (red), demonstrating specific intracellular detection of endogenous GK5. These results support the use of GK5 Antibody, also known as Glycerol Kinase 5 Antibody, for analyzing GK5 expression and glycerol kinase family protein distribution by flow cytometry.



GK5 Antibody Human Cancer Cell WB. Western blot analysis of GK5 Antibody using lysates from lane 1: human Jurkat cells, lane 2: human A431 cells, lane 3: human SiHa cells and lane 4: human RT4 cells. Specific bands are detected between approximately 55-65 kDa, consistent with the expected molecular weight of endogenous GK5 (~61 kDa). The closely spaced doublet observed in some samples is consistent with differential mitochondrial processing and/or post-translational modification of GK5. These results demonstrate reliable detection of GK5 Antibody, also known as Glycerol Kinase 5 Antibody, for studies of GK5 expression and glycerol kinase family biology in human cells.

Description

GK5 Antibody / Glycerol Kinase 5 Antibody recognizes glycerol kinase 5 (GK5), a member of the glycerol kinase family that is predicted to participate in cellular metabolic processes involving glycerol and energy homeostasis. Although GK5 shares sequence homology with the well-characterized glycerol kinase enzyme, its biological functions remain less extensively defined. Ongoing studies aim to clarify its tissue distribution, enzymatic activity and physiological significance while distinguishing its role from other glycerol kinase family members. NSJ Bioreagents offers high-quality GK5 Antibody reagents for investigating GK5 expression and metabolic regulation.

Members of the glycerol kinase family contribute to pathways linking glycerol utilization with lipid metabolism, membrane biosynthesis and cellular energy production. While the canonical glycerol kinase enzyme is responsible for phosphorylating glycerol to glycerol-3-phosphate, GK5 is believed to participate in related metabolic processes, although its precise biochemical role continues to be investigated. Characterizing GK5 expression across tissues and cell types may provide important insights into metabolic regulation and the functional diversification of the glycerol kinase family. Consequently, GK5 Antibody is a useful tool for examining GK5 distribution and cellular metabolism.

Interest in GK5 has increased through genomic, transcriptomic and proteomic studies examining metabolic regulation and tissue-specific gene expression. Continued investigation is expected to improve understanding of its physiological functions, potential protein interactions and contribution to metabolic homeostasis. As research expands, GK5 may emerge as a useful biomarker for studies of cellular metabolism and glycerol kinase family biology. Researchers frequently use GK5 Antibody to evaluate endogenous protein expression and compare GK5 with related metabolic enzymes.

A GK5 Antibody is a valuable reagent for investigating glycerol kinase family biology, metabolic regulation and cellular energy homeostasis. A Glycerol Kinase 5 Antibody supports research involving glycerol metabolism, lipid metabolism, tissue-specific gene expression and the functional characterization of GK5.

Researchers studying glycerol metabolism, lipid metabolism and cellular energy regulation may also be interested in our Metabolism Research Antibodies page, featuring antibodies against enzymes and regulatory proteins involved in metabolic homeostasis.

Application Notes

Optimal dilution of the GK5 Antibody / Glycerol Kinase 5 Antibody should be determined by the researcher.

Immunogen

E.coli-derived human GK5 recombinant protein (Position: D37-K402) was used as the immunogen for the GK5 antibody.

Storage

After reconstitution, the GK5 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

GK5 antibody, Glycerol Kinase 5 antibody, Glycerol Kinase Family Member 5 antibody, GK-5 antibody

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