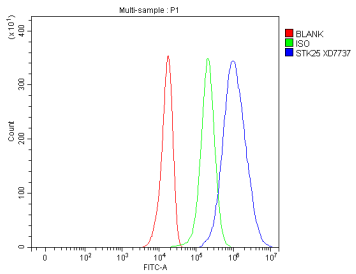
STK25 Antibody / Serine/threonine-protein kinase 25 Antibody (FY13586)

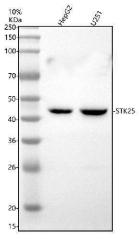
Catalog No.	Formulation	Size
FY13586	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	O00506
Applications	Western blot: 0.5-1ug/ml Flow cytometry: 1-3ug/million cells ELISA: 0.1-0.5 ug/ml
Limitations	Intended solely for research purposes, this STK25 Antibody / Serine/threonine-protein kinase 25 Antibody is not for clinical use.



STK25 Antibody by FACS in U251 cells. Flow cytometry analysis using Serine/threonine-protein kinase 25 Antibody shows a rightward shift of the antibody-stained population (blue) relative to the rabbit IgG isotype control (green) and unstained blank (red). U251 cells were fixed with 4% paraformaldehyde and permeabilized for intracellular staining. Primary antibody was applied at 1 ug per 1 x 10^6 cells for 30 minutes at 20oC, followed by a fluorescent anti-rabbit IgG secondary antibody. The histogram demonstrates detectable antibody-associated fluorescence under these assay conditions.



STK25 Antibody by WB in human HepG2 and U251 cells. Western blot analysis using Serine/threonine-protein kinase 25 Antibody detects a prominent band near 48 kDa, compared with the calculated molecular weight of approximately 48 kDa. Lane 1 contains HepG2 whole-cell lysate and lane 2 contains U251 whole-cell lysate. Reduced lysates containing 30 ug total protein per lane were separated by 10% SDS-PAGE and transferred to nitrocellulose. After blocking with 5% nonfat milk, the membrane was incubated with primary antibody at 0.5 ug/mL overnight at 4oC. Detection employed an HRP-conjugated anti-rabbit secondary antibody and chemiluminescent substrate.

Description

STK25 Antibody / Serine/threonine-protein kinase 25 Antibody detects STK25, also called YSK1 or SOK1, a member of the germinal center kinase III subgroup of STE20-related kinases. The enzyme transfers phosphate groups to protein substrates and participates in signaling pathways that influence cell polarity, cytoskeletal organization, and stress responses. STK25 has been detected at the Golgi apparatus, where its localization is associated with GM130 and the kinase adaptor protein STRIPAK-related signaling components. Its subcellular positioning helps determine which substrates and regulatory proteins can interact with the kinase.

STK25 is related to STK24 and MST4, but these kinases are not interchangeable: differences in binding partners, localization, and regulatory inputs shape their functions. The STRIPAK complex contains phosphatase and scaffold components that coordinate the activity of several germinal center kinase III proteins. STK25 has also been connected to changes in actin dynamics and the orientation of cells during migration. These observations place the kinase at an intersection between membrane trafficking, organelle architecture, and the spatial control of cellular signaling. The Serine/threonine-protein kinase 25 Antibody name refers to this same gene product.

Work on STK25 has explored its contribution to metabolic regulation, including hepatic lipid handling and responses to nutrient excess. Experimental models have associated altered STK25 abundance with changes in lipid accumulation and mitochondrial function, although the consequences vary with biological context. Its role in Golgi organization is also relevant to the maintenance of polarized cells, which must distribute proteins and membranes to defined cellular regions. NSJ Bioreagents includes this kinase among targets involved in protein phosphorylation and cellular organization. An STK25 Antibody provides a way to investigate the molecular biology associated with this protein.

Explore related research targets in our Signal Transduction Antibodies for Cell Signaling and Regulatory Pathway Research collection.

Application Notes

The optimal working dilution of the STK25 Antibody / Serine/threonine-protein kinase 25 Antibody should be determined empirically by the investigator.

Immunogen

The STK25 Antibody was generated using e. coli-derived human STK25 recombinant protein (amino acids M1-R426).

Storage

Following reconstitution, the STK25 Antibody can be kept at 4oC for one month. Aliquot for extended storage at -20oC for up to six months, avoiding repeated freezing and thawing.

Alternate Names

STK25 antibody, Serine/threonine-protein kinase 25 antibody, serine/threonine kinase 25 antibody, Ste20 like kinase antibody, SOK-1 antibody, SOK1 antibody, SOK 1 antibody

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