# STK33 (h2): 293T Lysate: sc-174857



The Power to Question

## **BACKGROUND**

The phosphorylation and dephosphorylation of proteins on serine and threonine residues is an essential means of regulating a broad range of cellular
functions in eukaryotes, including cell division, homeostasis and apoptosis.
A group of proteins that are intimately involved in this process are the serine/threonine (Ser/Thr) protein kinases. STK33 (serine/threonine kinase 33)
is a 514 amino acid protein that belongs to the CaMK (calcium/calmodulin
dependent kinase) subfamily of structurally related serine/threonine kinases.
Widely expressed at low levels with predominant expression in testis, lung,
retina and fetal organs such as brain, heart and spinal cord, STK33 contains
one protein kinase domain and functions as a Ser/Thr protein kinase with a
possible role in spermatogenesis. The gene encoding STK33 lies within a region on chromosome 11 that has been associated with a variety of defects,
including Long QT syndrome, T-cell leukemia, Beckwith-Wiedemann syndrome,
Usher syndrome 1C and various other malignancies.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: STK33 (human) mapping to 11p15.4.

# **PRODUCT**

STK33 (h2): 293T Lysate represents a lysate of human STK33 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

### STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

#### **APPLICATIONS**

STK33 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive STK33 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

## **PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

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