

Recombinant Human Serine/Threonine Kinase 33, GST-tagged, Active

Cat. No. STK33-438H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human STK33 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. MW = 94 kDa.
Species	Human
Source	Sf9 Cells
Description	STK33 is a distant member of the CAMK group of serine/threonine kinases but it lacks the calcium/calmodulin-binding domain and the C-terminal regulatory tail. STK33 is highly expressed in testis, lung epithelia, alveolar macrophages, horizontal cells in the retina and in embryonic organs such as heart, brain and spinal cord. STK33 is essential for abnormal cell growth in human cell lines expressing oncogenic mutations in KRAS, but not in human cancer cell lines expressing wildtype KRAS. STK33 is required for survival and proliferation of mutant KRAS-dependent cancer cells, in which it suppresses the S6K1-BAD proapoptotic signaling pathway.
Sequence	Full length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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GENE INFORMATION

Gene Name	STK33 serine/threonine kinase 33 [Homo sapiens]
Synonyms	STK33; serine/threonine kinase 33; OTTHUMP00000178935; OTTHUMP00000208016; EC 2.7.11.1
Gene ID	65975
mRNA Refseq	NM_030906
Protein Refseq	NP_112168
MIM	607670
UniProt ID	Q9BYT3
Chromosome Location	11p15.3
Function	ATP binding; nucleotide binding; protein serine/threonine kinase activity; transferase activity

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