



# Anti-STK3 monoclonal antibody, clone 4178D4b (DCABH-9534)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Mouse monoclonal to STK3
<b>Antigen Description</b>	Stress-activated, pro-apoptotic kinase which, following caspase-cleavage, enters the nucleus and induces chromatin condensation followed by internucleosomal DNA fragmentation. Key component of the Hippo signaling pathway which plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. The core of this pathway is composed of a kinase cascade wherein MST1/MST2, in complex with its regulatory protein SAV1, phosphorylates and activates LATS1/2 in complex with its regulatory protein MOB1, which in turn phosphorylates and inactivates YAP1 oncoprotein and WWTR1/TAZ. Phosphorylation of YAP1 by LATS2 inhibits its translocation into the nucleus to regulate cellular genes important for cell proliferation, cell death, and cell migration. MST1/MST2 are required to repress proliferation of mature hepatocytes, to prevent activation of facultative adult liver stem cells (oval cells), and to inhibit tumor formation. Phosphorylates NKX2-1.
<b>Immunogen</b>	Recombinant fragment of human STK3
<b>Isotype</b>	IgG2b
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	4178D4b
<b>Purity</b>	Protein G purified
<b>Purification</b>	This antibody was purified using protein G column chromatography from culture supernatant of hybridoma cultured in a medium containing bovine IgG-depleted (approximately 95%) fetal bovine serum and filtered through a 0.22µm membrane.

<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, Dot Blot
<b>Positive Control</b>	Recombinant human STK3.
<b>Format</b>	Liquid
<b>Size</b>	100 µg
<b>Buffer</b>	Preservative: 0.05% Sodium Azide; Constituents: 1% BSA, PBS (8.0mM Sodium phosphate, 3.0mM Potassium chloride, 140mM Sodium chloride, 1.5mM Potassium phosphate, pH 7.4)
<b>Storage</b>	store at -20°C. Avoid freeze / thaw cycles.
<b>Ship</b>	Shipped at 4°C.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">STK3 serine/threonine kinase 3 [ Homo sapiens ]</a>
<b>Official Symbol</b>	STK3
<b>Synonyms</b>	STK3; serine/threonine kinase 3; serine/threonine kinase 3 (Ste20, yeast homolog); serine/threonine-protein kinase 3; KRS1; MST2; MST-2; STE20-like kinase MST2; mammalian STE20-like protein kinase 2; serine/threonine-protein kinase Krs-1; serine/threonine
<b>Entrez Gene ID</b>	<a href="#">6788</a>
<b>Protein Refseq</b>	<a href="#">NP_001243241</a>
<b>UniProt ID</b>	<a href="#">Q13188</a>
<b>Chromosome Location</b>	8q22.2
<b>Pathway</b>	MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, conserved biosystem; Signal Transduction, organism-specific biosystem; Signaling by Hippo, organism-specific biosystem;
<b>Function</b>	ATP binding; ATP binding; magnesium ion binding; nucleotide binding; protein binding; protein dimerization activity; protein kinase activity; protein kinase activity; protein serine/threonine kinase activator activity; protein serine/threonine kinase acti