

## Recombinant Mouse Sav1 Protein, Myc/DDK-tagged

Cat. No. Sav1-5697M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length salvador family WW domain containing 1 (Sav1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	<p>Regulator of STK3/MST2 and STK4/MST1 in 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 STK3/MST2 and STK4/MST1, 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 LATS1/2 inhibits its translocation into the nucleus to regulate cellular genes important for cell proliferation, cell death, and cell migration. SAV1 is required for STK3/MST2 and STK4/MST1 activation and promotes cell-cycle exit and terminal differentiation in developing epithelial tissues. Plays a role in centrosome disjunction by regulating the localization of NEK2 to centrosomes, and its ability to phosphorylate CROCC and CEP250. In conjunction with STK3/MST2, activates the transcriptional activity of ESR1 through the modulation of its phosphorylation.</p>
<b>Molecular Mass</b>	44.9 kDa

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<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Sav1 salvador family WW domain containing 1 [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	<a href="#">Sav1</a>
<b>Synonyms</b>	SAV1; salvador homolog 1 (Drosophila); protein salvador homolog 1; 45 kDa WW domain protein; WW domain-containing protein 3; WW domain-containing protein 4; Sav; Salv; WW45; Wwp3; Wwp4; 1700040G09Rik
<b>Gene ID</b>	<a href="#">64010</a>
<b>mRNA Refseq</b>	<a href="#">NM_022028</a>
<b>Protein Refseq</b>	<a href="#">NP_071311</a>
<b>UniProt ID</b>	<a href="#">Q8VEB2</a>

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