

Active Recombinant Mouse HIPK2, GST-tagged

Cat. No. HIPK2-1414M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mouse HIPK2 (153-564) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Mouse
Source	Sf9 Cells
ProteinLength	153-564 aa
Description	HIPK2 is a conserved serine/threonine nuclear kinase that interacts with homeodomain transcription factors. HIPK2 enhances expression of p53 target genes that resulting in growth arrest and the enhancement of UV-induced apoptosis that could be inhibited by antisense to HIPK2. HIPK2 as a target for MDM2 mediated ubiquitin-dependent degradation that only occurred in growth-arresting conditions when MDM2 was efficiently induced by p53. The knockdown of HIPK2 using small interfering RNA reduced p53 binding and activation of p53R2 that resulting in impaired UV-induced DNA repair.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	110 nmol/min/mg
Molecular Mass	~72 kDa

 Tel: 1-631-559-9269 1-516-512-3133

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Purity	>95%
Applications	Kinase Assay, Western Blot
Storage	Store at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1 µg/µl
GENE INFORMATION	
Gene Name	Hipk2 homeodomain interacting protein kinase 2 [Mus musculus]
Official Symbol	HIPK2
Synonyms	HIPK2; homeodomain interacting protein kinase 2; homeodomain-interacting protein kinase 2; nuclear body-associated kinase 1; sialophorin tail-associated nuclear serine/threonine-protein kinase; Stank; 1110014O20Rik; B230339E18Rik;
Gene ID	15258
mRNA Refseq	NM_001136065
Protein Refseq	NP_001129537
Pathway	Wnt Signaling Pathway NetPath, organism-specific biosystem;
Function	ATP binding; NOT DNA binding; RNA polymerase II activating transcription factor binding; contributes_to RNA polymerase II transcription coactivator activity; SMAD binding; kinase activity; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; protein serine/threonine kinase activity;

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transcription corepressor activity; transcription corepressor activity; transferase activity; transferase activity, transferring phosphorus-containing groups; virion binding;

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