HIPK2 recombinant protein

HIPK2, Active

CATALOG #	HOST	APPLICATIONS
AAA73588	**Sf9 insect cells**	**Western Blot**

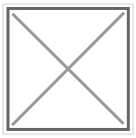
PRODUCT SYNONYMS

HIPK2; Active; DKFZp686K02111; FLJ23711; PRO0593; HIPK2 recombinant protein

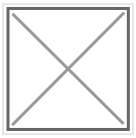
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for HIPK2 recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree 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.

IMAGES



SDS-PAGE
Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity
Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for HIPK2 recombinant protein	Recombinant human HIPK2 (1-640) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_022740. 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 (1). HIPK2 as a target for MDM2 mediated ubiquitin-dependent degradation that only occurred in growth-arresting conditions when MDM2 was efficiently induced by p53 (2). The knockdown of HIPK2 using small interfering RNA reduced p53 binding and activation of p53R2 that resulting in impaired UV-induced DNA repair.
Product Categories/Family for HIPK2 recombinant protein	Protein Kinases; Cancer; Cell Cycle; Metabolic Disorder; Ser/Thr Kinases; WNT Signaling
References	1. Hofmann, T. G. et.al: Regulation of p53 activity by its interaction with homeodomain-interacting protein kinase-2. Nature Cell Biol. 4: 1-10, 2002. 2. Rinaldo, C. et.al: MDM2-regulated degradation of HIPK2 prevents p53Ser46 phosphorylation and DNA damage-induced apoptosis. Molec. Cell 25: 739-750, 2007.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_022740
Molecular Weight	~98kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/hipk2-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73588