

HIPK2 recombinant protein

Recombinant HIPK2 (1-640) protein

CATALOG #
AAA60233

HOST
Baculovirus

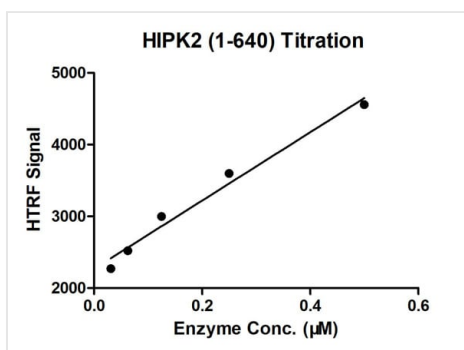
PRODUCT SYNONYMS

HIPK2; Recombinant HIPK2 (1-640) protein; PRO0593; HIPK2 recombinant protein

PRODUCT SPECIFICATIONS

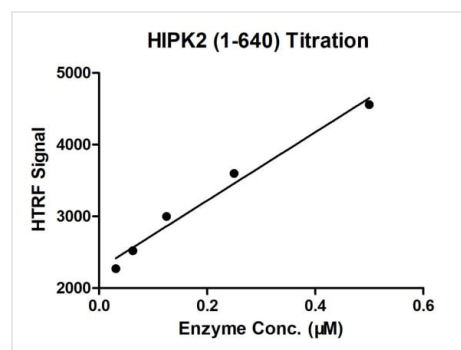
Host	Baculovirus
Form/Format	Recombinant HIPK2 (1-640) protein is supplied in 25mM HEPES-NaOH pH7.5, 500mM NaCl, 10% glycerol, 0.04% Triton X-100, and 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Protein Details	Recombinant HIPK2 (1-640) protein that includes amino acids 1-640 of human HIPK2 protein (accession number NP_001106710.1) was expressed in a baculovirus expression system, and contains an N-terminal DYKDDDDK tag.
Notes	This product was manufactured as described in Protein Details. Where possible, We has developed functional or activity assays for recombinant proteins. Additional characterization such as enzyme kinetic activity assays, inhibitor screening or other biological activity assays may not have been performed for every product. All available data this product is shown.
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	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



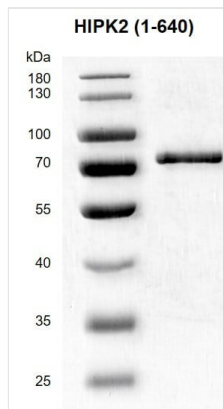
Application Data

HTRF assay for HIPK2 (1-640) activity 1 uM STK S3 substrate was incubated with different concentrations of HIPK2 (1-640) protein in a 10 ul reaction system containing 1×Enzymatic Buffer, 5 mM MgCl₂, 1 mM DTT and 100 uM ATP for 1 hour. The 10 ul detection reagents containing STK antibody (1:2) and SA-XL665 (1:100) diluted with 1× Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



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SDS-PAGE

Recombinant HIPK2 (1-640) protein 10% SDS-PAGE with Coomassie staining MW: 69.5 kDa Purity: >95%

ADDITIONAL INFORMATION

Related Product Information for HIPK2 recombinant protein	Background: HIPK2 (Homeodomain Interacting Protein Kinase 2) is a conserved serine/threonine kinase that involved in transcription regulation, p53/TP53-mediated cellular apoptosis and regulation of the cell cycle. It acts as a corepressor of several transcription factors, including SMAD1 and POU4F1/Brn3a and probably NK homeodomain transcription factors. HIPK2 phosphorylates PDX1, ATF1, PML, p53/TP53, CREB1, CTBP1, CBX4, RUNX1, EP300, CTNNB1, HMGA1 and ZBTB4. It inhibits cell growth and promotes apoptosis through the activation of p53/TP53 both at the transcription level and at the protein level (by phosphorylation and indirect acetylation), the phosphorylation of p53/TP53 may be mediated by a p53/TP53-HIPK2-AXIN1 complex.
Product Categories/Family for HIPK2 recombinant protein	Recombinant Proteins ; Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	164420691
NCBI GeneID	28996
NCBI Accession #	NP_001106710.1
NCBI GenBank Nucleotide #	NM_001113239.2
UniProt Accession #	Q9H2X6 ; Q75MR7 ; Q8WWI4 ; Q9H2Y1 ; Q9UI21
Molecular Weight	130,966 Da
NCBI Official Full Name	homeodomain-interacting protein kinase 2 isoform 2
NCBI Official Synonym Full Names	homeodomain interacting protein kinase 2
NCBI Official Symbol	HIPK2
NCBI Official Synonym Symbols	PRO0593; FLJ23711; DKFZp686K02111
NCBI Protein Information	homeodomain-interacting protein kinase 2; hHIPk2; OTTHUMP00000212368; OTTHUMP00000212369
UniProt Protein Name	Homeodomain-interacting protein kinase 2
UniProt Gene Name	HIPK2
UniProt Synonym Gene Names	hHIPk2
UniProt Entry Name	HIPK2_HUMAN

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.

