

Rabbit Phospho-HIPK2 (Y361) Polyclonal Antibody | anti-HIPK2 antibody

Phospho-HIPK2 (Y361) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288429	Rabbit	Human (Predicted Reactivity: Mouse, Rat)	ELISA, Dot Blot

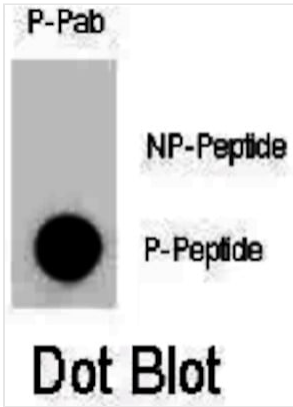
PRODUCT SYNONYMS

Phospho-HIPK2 (Y361); Polyclonal Antibody; Phospho-HIPK2 (Y361) Antibody; Homeodomain-interacting protein kinase 2; hHIPK2; HIPK2; anti-HIPK2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This HIPK2 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Y361 of human HIPK2.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Length	1,171
Applicable Applications for anti-HIPK2 antibody	ELISA, DB (Dot Blot)
Function	Serine/threonine-protein kinase involved in transcription regulation, p53/TP53-mediated cellular apoptosis and regulation of the cell cycle. Acts as a corepressor of several transcription factors, including SMAD1 and POU4F1/Brn3a and probably NK homeodomain transcription factors. Phosphorylates PDX1, ATF1, PML, p53/TP53, CREB1, CTBP1, CBX4, RUNX1, EP300, CTNNB1, HMGA1 and ZBTB4. 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. Involved in the response to hypoxia by acting as a transcriptional co-suppressor of HIF1A. Mediates transcriptional activation of TP73. In response to TGFB, cooperates with DAXX to activate JNK. Negative regulator through phosphorylation and subsequent proteasomal degradation of CTNNB1 and the antiapoptotic factor CTBP1. In the Wnt/beta-catenin signaling pathway acts as an intermediate kinase between MAP3K7/TAK1 and NLK to promote the proteasomal degradation of MYB. Phosphorylates CBX4 upon DNA damage and promotes its E3 SUMO-protein ligase activity. Activates CREB1 and ATF1 transcription factors by phosphorylation in response to genotoxic stress. In response to DNA damage, stabilizes PML by phosphorylation. PML, HIPK2 and FBXO3 may act synergically to activate p53/TP53- dependent transactivation. Promotes angiogenesis, and is involved in erythroid differentiation, especially during fetal liver erythropoiesis. Phosphorylation of RUNX1 and EP300 stimulates EP300 transcription regulation activity. Triggers ZBTB4 protein degradation in response to DNA damage. Modulates HMGA1 DNA-binding affinity. In response to high glucose, triggers phosphorylation-mediated subnuclear localization shifting of PDX1. Involved in the regulation of eye size, lens formation and retinal lamination during late embryogenesis.
Cellular Location	Nucleus, PML body. Cytoplasm. Note=Concentrated in PML/POD/ND10 nuclear bodies. Small amounts are cytoplasmic
Tissue Location	Highly expressed in heart, muscle and kidney. Weakly expressed in a ubiquitous way. Down-regulated in several thyroid and breast tumors.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



DB (Dot Blot)
Dot blot analysis of anti-Phospho-HIPK2-pY361 Antibody (AAA288429) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

ADDITIONAL INFORMATION

Related Product Information for anti-HIPK2 antibody	HIPK2 is a conserved serine/threonine nuclear kinase that interacts with homeodomain transcription factors.
Product Categories/Family for anti-HIPK2 antibody	Cell Biology ; Signal Transduction ; Phospho Antibodies
References	Guha U, et al. (2008) Proc Natl Acad Sci U S A 105, 14112-7 Daub H, et al. (2008) Mol Cell 31, 438-48 Guo A, et al. (2008) Proc Natl Acad Sci U S A 105, 692-7 Rikova K, et al. (2007) Cell 131, 1190-203

NCBI AND UNIPROT INFORMATION

NCBI GI #	164420691
NCBI GeneID	28996
NCBI Accession #	NP_001106710.1 ; NP_073577.3
NCBI GenBank Nucleotide #	NM_001113239.2
UniProt Accession #	Q9H2X6 ; Q75MR7 ; Q8WWI4 ; Q9H2Y1
Molecular Weight	Calculated MW: 130966
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
NCBI Protein Information	homeodomain-interacting protein kinase 2
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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/phospho-hipk2-y361-antibody-dot-blot-elisa/288429>