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HIPK3 Rabbit pAb

Catalog # AP99945

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9H422
Other Accession	Q9H422
Predicted	Rat, Human, Mouse, Rabbit, Chicken, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	133743
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HIPK3
Epitope Specificity	401-500/1215
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. HIPK subfamily.Contains 1 protein kinase domain.
SUBUNIT	Interacts with Nkx1-2. Interacts with FAS and DAXX. Probably part of a complex consisting of HIPK3, FAS and FADD. Interacts with and stabilizes ligand-bound androgen receptor (AR). Interacts with UBL1/SUMO-1. Binds to NR5A1/SF1, SPEN/MINT and RUNX2.
Post-translational modifications	Autophosphorylated, but autophosphorylation is not required for catalytic activity.May be sumoylated.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Seems to negatively regulate apoptosis by promoting FADD phosphorylation. Enhances androgen receptor-mediated transcription. May act as a transcriptional corepressor for NK homeodomain transcription factors.

Additional Information

Gene ID	10114
Other Names	DYRK6; FIST3; PKY; YAK1; mir-1902; ANPK; HIPK3_HUMAN; HIPK3; Androgen receptor-interacting nuclear protein kinase (ANPK); Fas-interacting serine/threonine-protein kinase (FIST); Homolog of protein kinase YAK1; 2.7.11.1; HIPK3_MOUSE; Nuclear body-associated kinase 3 (Nbak3); HIPK3_RAT; Fist;
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	HIPK3
Synonyms	DYRK6, FIST3, PKY
Function	Serine/threonine-protein kinase involved in transcription regulation, apoptosis and steroidogenic gene expression. Phosphorylates JUN and RUNX2. Seems to negatively regulate apoptosis by promoting FADD phosphorylation. Enhances androgen receptor-mediated transcription. May act as a transcriptional corepressor for NK homeodomain transcription factors. The phosphorylation of NR5A1 activates SF1 leading to increased steroidogenic gene expression upon cAMP signaling pathway stimulation. In osteoblasts, supports transcription activation: phosphorylates RUNX2 that synergizes with SPEN/MINT to enhance FGFR2- mediated activation of the osteocalcin FGF-responsive element (OCFRE).
Cellular Location	Cytoplasm. Nucleus
Tissue Location	Overexpressed in multidrug resistant cells. Highly expressed in heart and skeletal muscle, and at lower levels in placenta, pancreas, brain, spleen, prostate, thymus, testis, small intestine, colon and leukocytes. Not found in liver and lung

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.