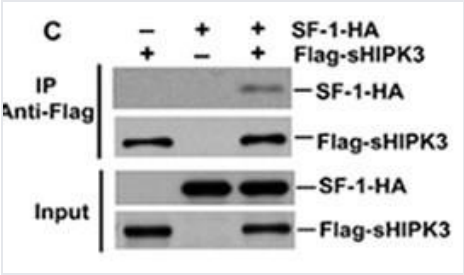
HIPK3 Antibody – Rabbit Polyclonal

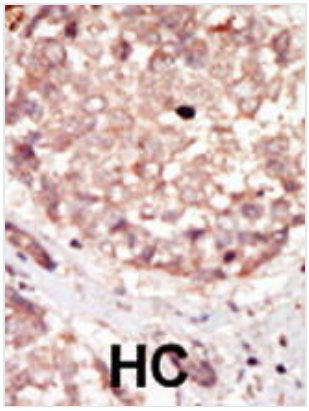
PRODUCT OVERVIEW

Product Name	HIPK3, Polyclonal Antibody
Full Product Name	HIPK3, CT (HIPK3, DYRK6, FIST3, PKY, Homeodomain-interacting protein kinase 3, Androgen receptor-interacting nuclear protein kinase, Fas-interacting serine/threonine-protein kinase, Homolog of protein kinase YAK1) (AP)
Product Gene Name	anti-HIPK3 antibody
Product Synonym Names	HIPK3; DYRK6; FIST3; PKY; Homeodomain-interacting protein kinase 3; Androgen receptor-interacting nuclear protein kinase; Fas-interacting serine/threonine-protein kinase; Homolog of protein kinase YAK1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	131,256 Da
OMIM	604424
3D Structure	ModBase 3D Structure for Q9H422
Immunogen	HIPK3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1134~1163 amino acids from the sequence of human HIPK3 within a 1100-1200.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-HIPK3 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-HIPK3 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-HIPK3 antibody	IHC: 1:50-100 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-HIPK3 antibody	HIPK3 negatively regulates apoptosis by promoting FADD phosphorylation. This kinase enhances androgen receptor-mediated transcription, and may act as a transcriptional corepressor for NK homeodomain transcription factors.
Product References and Citations for anti-HIPK3 antibody	Blume-Jensen P, et al. Nature 2001. 411: 355. Cantrell D, J. Cell Sci. 2001. 114: 1439. Jhiang S Oncogene 2000. 19: 5590. Manning G, et al. Science 2002. 298: 1912. Moller, D, et al. Am. J. Physiol. 1994. 266: C351-C359. Robertson, S. et al. Trends Genet. 2000. 16: 368. Robinson D, et al. Oncogene 2000. 19: 5548. Van der Ven, P, et al. Hum. Molec. Genet. 1993. 2: 1889. Vanhaesebroeck, B, et al. Biochem. J. 2000. 346: 561. Van Weering D, et al. Recent Results Cancer Res. 1998. 154: 271.

Other Notes	Small volumes of anti-HIPK3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HIPK3 purchase	MBS6306571 is an antibody targeting HIPK3. Also known as HIPK3, CT (HIPK3, DYRK6, FIST3, PKY, Homeodomain-interacting protein kinase 3, Androgen receptor-interacting nuclear protein kinase, Fas-interacting serine/threonine-protein kinase, Homolog of protein kinase YAK1) (AP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-HIPK3 antibody
Detection of interaction between HIPK3 and SF-1 by coimmunoprecipitation. After expression of SF-1-HA and DYKDDDDK-sHIPK3 (aa 159 to 1191) in H1299 cells, the HIPK3 protein complex was immunoprecipitated with anti-DYKDDDDK antibody or by direct loading to the gel (input). Western blotting was then performed to detect SF-1-HA and DYKDDDDK-sHIPK3.



Immunohistochemistry (IHC) of anti-HIPK3 antibody
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HIPK3. It may not necessarily be applicable to this product.

NCBI GI #	114796624
NCBI GeneID	10114
NCBI Accession #	NP_005725.3
UniProt Primary Accession #	Q9H422
UniProt Secondary Accession #	O14632; Q2PBG4; Q2PBG5; Q92632; Q9HAS2
UniProt Related Accession #	Q9H422
GenBank Nucleotide #	NM_005734.4
NCBI Official Full Name	homeodomain-interacting protein kinase 3 isoform 1
NCBI Official Synonym Full Names	homeodomain interacting protein kinase 3
NCBI Official Symbol	HIPK3
NCBI Official Synonym Symbols	PKY; YAK1; DYRK6; FIST3
UniProt Protein Name	Homeodomain-interacting protein kinase 3
UniProt Synonym Protein Names	Androgen receptor-interacting nuclear protein kinase; ANPK; Fas-interacting serine/threonine-protein kinase; FIST; Homolog of protein kinase YAK1
Protein Family	Homeodomain-interacting protein kinase
UniProt Gene Name	HIPK3
UniProt Synonym Gene Names	DYRK6; FIST3; PKY; ANPK; FIST
UniProt Entry Name	HIPK3_HUMAN

NCBI Protein Information	homeodomain-interacting protein kinase 3; ANPK; FIST; homolog of protein kinase YAK1; fas-interacting serine/threonine-protein kinase; androgen receptor-interacting nuclear protein kinase
UniProt Comments for HIPK3	HIPK3: homeodomain interacting protein kinase 3 is a CMGC kinase of the DYRK family. Phosphorylates FADD and inhibits fas-mediated Jun NH(2)-terminal kinase activation. Protein type: Kinase, protein; Nuclear receptor co-regulator; Protein kinase, Ser/Thr (non-receptor); Protein kinase, CMGC; EC 2.7.11.1; CMGC group; DYRK family; HIPK subfamily Chromosomal Location of Human Ortholog: 11p13 Cellular Component: PML body; cytoplasm; nucleus Molecular Function: protein serine/threonine kinase activity; ATP binding; protein kinase activity Biological Process: negative regulation of JNK activity; peptidyl-serine phosphorylation; regulation of transcription, DNA-dependent; apoptosis; peptidyl-threonine phosphorylation; mRNA transcription; protein amino acid phosphorylation; negative regulation of apoptosis
Research Articles on HIPK3	**1.** Observational study of gene-disease association. (HuGE Navigator)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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