

**HIPK1 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12465b****Specification**

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**HIPK1 Antibody (C-term) Blocking peptide - Product Information**Primary Accession [Q86Z02](#)**HIPK1 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 204851**Other Names**

Homeodomain-interacting protein kinase 1, Nuclear body-associated kinase 2, HIPK1, KIAA0630, MYAK, NBAK2

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**HIPK1 Antibody (C-term) Blocking peptide - Protein Information****Name** HIPK1**Synonyms** KIAA0630, MYAK, NBAK2**Function**

Serine/threonine-protein kinase involved in transcription regulation and TNF-mediated cellular apoptosis. Plays a role as a corepressor for homeodomain transcription factors. Phosphorylates DAXX and MYB. Phosphorylates DAXX in response to stress, and mediates its translocation from the nucleus to the cytoplasm. Inactivates MYB transcription factor activity by phosphorylation. Prevents MAP3K5-JNK activation in the absence of TNF. TNF triggers its translocation to the cytoplasm in response to stress stimuli, thus activating nuclear MAP3K5-JNK by derepression and promoting apoptosis. May be involved in anti-oxidative stress responses. Involved in the regulation of eye size, lens formation and retinal lamination during late embryogenesis. Promotes angiogenesis and to be involved in erythroid differentiation. May be involved in malignant squamous cell tumor formation. Phosphorylates PAGE4 at 'Thr-51' which is critical for the ability of PAGE4 to potentiate the transcriptional activator activity of JUN (PubMed:<a href="http://www.uniprot.org/citations/24559171" target="\_blank">24559171</a>).

**Cellular Location**

Nucleus. Cytoplasm. Nucleus speckle. Note=Predominantly nuclear Translocates from nucleus to

cytoplasm in response to stress stimuli via SENP1-mediated desumoylation.

**Tissue Location**

Ubiquitously expressed with highest levels in skeletal muscle and heart. Overexpressed in breast cancer cell lines Isoform 2 is highly expressed in testis. Expressed in both androgen- dependent and androgen-independent prostate cancer cells (PubMed:28289210).

**HIPK1 Antibody (C-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**HIPK1 Antibody (C-term) Blocking peptide - Images****HIPK1 Antibody (C-term) Blocking peptide - Background**

The protein encoded by this gene belongs to the Ser/Thr family of protein kinases and HIPK subfamily. It phosphorylates homeodomain transcription factors and may also function as a co-repressor for homeodomain transcription factors. Alternative splicing results in four transcript variants encoding four distinct isoforms.

**HIPK1 Antibody (C-term) Blocking peptide - References**

Matre, V., et al. Biochem. Biophys. Res. Commun. 388(1):150-154(2009) Li, X., et al. J. Biol. Chem. 280(15):15061-15070(2005) Rush, J., et al. Nat. Biotechnol. 23(1):94-101(2005) Colland, F., et al. Genome Res. 14(7):1324-1332(2004) Song, J.J., et al. J. Biol. Chem. 278(47):47245-47252(2003)