

Mouse Hipk1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP14716a**Specification**

Mouse Hipk1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [O88904](#)**Mouse Hipk1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 15257**Other Names**

Homeodomain-interacting protein kinase 1, Nuclear body-associated kinase 2, Protein kinase Myak, 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.

Mouse Hipk1 Antibody (N-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 (By similarity).

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 high levels in reproductive tissues. Expressed in the epithelial layer of mammary gland, uterus and epididymis, in the corpus luteum, and in post-meiotic round spermatids.

Mouse Hipk1 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

Mouse Hipk1 Antibody (N-term) Blocking Peptide - Images**Mouse Hipk1 Antibody (N-term) Blocking Peptide - Background**

Hipk1 may play a role as a corepressor for homeodomain transcription factors. Phosphorylates DAXX in response to stress, and mediates its translocation from the nucleus to the cytoplasm. May be involved in malignant squamous cell tumor formation.

Mouse Hipk1 Antibody (N-term) Blocking Peptide - References

Inoue, T., et al. FEBS Lett. 584(14):3233-3238(2010) Li, X., et al. Cell Death Differ. 15(4):739-750(2008) Munton, R.P., et al. Mol. Cell Proteomics 6(2):283-293(2007) Aikawa, Y., et al. EMBO J. 25(17):3955-3965(2006) Isono, K., et al. Mol. Cell. Biol. 26(7):2758-2771(2006)