

Product datasheet

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ARG66797 anti-HIPK1 antibody

Package: 100 μg Store at: -20°C

Summary

Host

Product Description Rabbit Polyclonal antibody recognizes HIPK1

Rabbit

Tested Reactivity Hu, Ms
Predict Reactivity Rat
Tested Application WB

Clonality Polyclonal

Isotype IgG

Target Name HIPK1
Species Human

Immunogen Synthetic peptide between aa. 290-370 of Human HIPK1.

Conjugation Un-conjugated

Alternate Names EC 2.7.11.1; Homeodomain-interacting protein kinase 1; Nuclear body-associated kinase 2; Myak;

Nbak2

Application Instructions

Predict Reactivity Note The immunogen sequence homology to rat HIPK1 protein is 100%.

Application table Application Dilution

WB 1:500 - 1:2000

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations

should be determined by the scientist.

Positive Control HeLa, NIH/3T3 and A549

Observed Size ~ 130 kDa

Properties

Form Liquid

Purification Affinity purification with immunogen.

Buffer PBS, 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol

HIPK1

Gene Full Name

homeodomain interacting protein kinase 1

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. [provided by RefSeq, Jul 2008]

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:24559171). [UniProt]

Calculated Mw

131 kDa

PTM

Autophosphorylated. Phosphorylated and activated by JNK1.

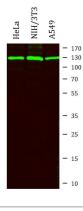
Degraded by PARK7 at the protein level.

Sumoylated. When conjugated it is directed to nuclear speckles. SENP1-mediated desumoylation is mediated by TNF in response to stress stimuli, triggering transient translocation from nucleus to cytoplasm. [UniProt]

Cellular Localization

Nucleus. Cytoplasm. Note=Predominantly nuclear. Translocates from nucleus to cytoplasm in response to stress stimuli via SENP1-mediated desumoylation. [UniProt]

Images



ARG66797 anti-HIPK1 antibody WB image

Western blot: HeLa, NIH/3T3 and A549 cell lysates stained with ARG66797 anti-HIPK1 antibody at 1:1000 dilution, overnight at 4°C.