

## Rabbit Anti-HIPK3/Biotin Conjugated antibody

SL6777R-Bio

<b>Product Name</b>	Anti-HIPK3/Biotin
<b>Chinese Name</b>	生物素标记的 Fas 相互作用蛋白激酶 3 抗体
<b>Alias</b>	FIST3; Androgen receptor interacting nuclear protein kinase; Androgen receptor-interacting nuclear protein kinase; ANPK; DYRK6; Fas interacting serine/threonine protein kinase; Fas-interacting serine/threonine-protein kinase; FIST; Hipk3; HIPK3_HUMAN; homeodomain interacting protein kinase 3; Homeodomain-interacting protein kinase 3; Homolog of protein kinase YAK1; PKY; RP24 297H17.5; YAK1.
<b>Research Area</b>	Cell biology Signal transduction Apoptosis transcriptional regulatory factor Kinases and Phosphatases Epigenetics
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	(predicted:Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Rabbit,Sheep) IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:500-5000
<b>Applications</b>	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight</b>	134kDa
<b>Form</b>	Lyophilized or Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from human HIPK3
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Storage Buffer</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>Storage</b>	
<b>Product Detail</b>	<b>background:</b>

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.

**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).

**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.

**Subcellular Location:**

Cytoplasm. Nucleus.

**Tissue Specificity:**

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.

**Post-translational modifications:**

Autophosphorylated, but autophosphorylation is not required for catalytic activity.

May be sumoylated.

**Similarity:**

Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. HIPK subfamily.

Contains 1 protein kinase domain.

**Database links:**



[Entrez Gene: 475947](#) Dog

[Entrez Gene: 10114](#) Human

[Entrez Gene: 15259](#) Mouse

[Entrez Gene: 83617](#) Rat

[Omim: 604424](#) Human

[SwissProt: Q9H422](#) Human

[SwissProt: Q9ERH7](#) Mouse

[SwissProt: O88850](#) Rat

[Unigene: 201918](#) Human

[Unigene: 257925](#) Mouse

[Unigene: 8099](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.