

Rabbit Anti-HIPK3/AP Conjugated antibody

SL6777R-AP

Product Name	Anti-HIPK3/AP
Chinese Name	碱性磷酸酶（AP）标记的 Fas 相互作用蛋白激酶 3 抗体
Alias	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.
Research Area	Cell biology Signal transduction Apoptosis transcriptional regulatory factor Kinases and Phosphatases Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted:Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Rabbit,Sheep) IHC-P=1:100-500,IHC-F=1:100-500,ELISA=1:500-5000
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	134kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human HIPK3
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	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.
Storage	
Product Detail	background: 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.