

HIPK3 / FIST Antibody (aa850-900)
Rabbit Polyclonal Antibody
Catalog # ALS11936

Specification

HIPK3 / FIST Antibody (aa850-900) - Product Information

| | |
|-------------------|------------------------|
| Application | IHC |
| Primary Accession | O9H422 |
| Reactivity | Human, Mouse, Rat, Dog |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 134kDa KDa |

HIPK3 / FIST Antibody (aa850-900) - Additional Information

Gene ID 10114

Other Names

Homeodomain-interacting protein kinase 3, 2.7.11.1, Androgen receptor-interacting nuclear protein kinase, ANPK, Fas-interacting serine/threonine-protein kinase, FIST, Homolog of protein kinase YAK1, HIPK3, DYRK6, FIST3, PKY

Target/Specificity

A portion of amino acids 850-900 of human HIPK3

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

HIPK3 / FIST Antibody (aa850-900) is for research use only and not for use in diagnostic or therapeutic procedures.

HIPK3 / FIST Antibody (aa850-900) - Protein Information

Name HIPK3

Synonyms DYRK6, FIST3, PKY

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).

Cellular Location

Cytoplasm. Nucleus

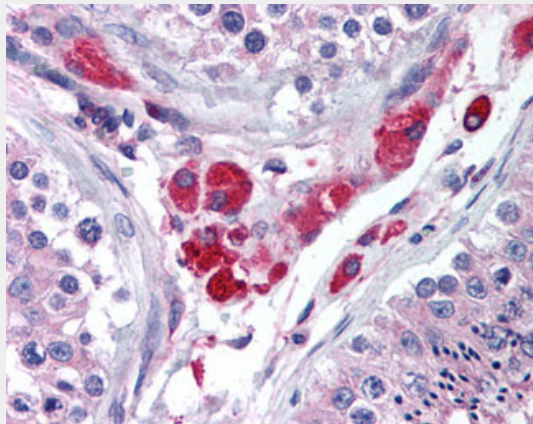
Tissue Location

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

HIPK3 / FIST Antibody (aa850-900) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

HIPK3 / FIST Antibody (aa850-900) - Images

Anti-HIPK3 antibody IHC of human testis.

HIPK3 / FIST Antibody (aa850-900) - Background

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).

HIPK3 / FIST Antibody (aa850-900) - References

Begley D.A., et al. *Gene* 200:35-43(1997).
Rochat-Steiner V., et al. *J. Exp. Med.* 192:1165-1174(2000).
Taylor T.D., et al. *Nature* 440:497-500(2006).

Becker W., et al. Submitted (NOV-1996) to the EMBL/GenBank/DDBJ databases.
Moilanen A.-M., et al. Mol. Biol. Cell 9:2527-2543(1998).