



Rabbit Anti-HIPK2 antibody

SL6353R

Product Name:	HIPK2
Chinese Name:	Fas相互作用蛋白激酶2抗体
Alias:	hHIPk 2; hHIPk2; HIPK 2; Hipk2; HIPK2_HUMAN; Homeodomain interacting protein kinase 2; Homeodomain-interacting protein kinase 2; Nbak1; Nuclear body-associated kinase 1; PRO0593; Sialophorin tail-associated nuclear serine/threonine-protein kinase; Stank.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	131kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human HIPK2:401-500/1198
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Protein kinase acting as a corepressor of several transcription factors, including SMAD1 and POU4F1/Brn3a and probably NK homeodomain transcription factors. Inhibits cell growth and promotes apoptosis. Involved in transcriptional activation of TP53 and TP73. Phosphorylation of TP53 may be mediated by a TP53-HIPK2-AXIN1 complex.

In response to TGFB, cooperates with DAXX to activate JNK. Phosphorylates the antiapoptotic factor CTBP1 and promotes its proteasomal degradation. In the Wnt/beta-catenin signaling pathway acts as an intermediate kinase between TAK1 and NLK to promote the proteasomal degradation of MYB (By similarity). Phosphorylates CBX4 upon DNA damage and promotes its E3 SUMO-protein ligase activity. PML, HIPK2 and FBXO3 may act synergically to activate p53/TP53-dependent transactivation.

Subunit:

Interacts with CREB1, SIAH1, WSB1, CBX4, TRADD, p53/TP53, TP73, TP63, CREBBP, DAXX, P53DINP1, SKI, SMAD1, SMAD2 and SMAD3, but not SMAD4. Interacts with ATF1, PML, RUNX1, EP300, NKX1-2, NKX2-5, SPN/CD43, UBE2I, HMGA1, CTBP1, AXIN1, NLK, MYB, POU4F1, POU4F2, POU4F3, UBE2I, UBL1 and ZBTB4. Probably part of a complex consisting of p53/TP53, HIPK2 and AXIN1.

Subcellular Location:

Nucleus, PML body. Cytoplasm.

Tissue Specificity:

Highly expressed in heart, muscle and kidney. Weakly expressed in a ubiquitous way. Down-regulated in several thyroid and breast tumors.

Similarity:

Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. HIPK subfamily. Contains 1 protein kinase domain.

SWISS:

Q9H2X6

Gene ID:

28996

Database links:

[Entrez Gene: 28996](#)Human

[Entrez Gene: 15258](#)Mouse

[Omim: 606868](#)Human

[SwissProt: Q9H2X6](#)Human

[SwissProt: Q9QZR5](#)Mouse

[Unigene: 397465](#)Human

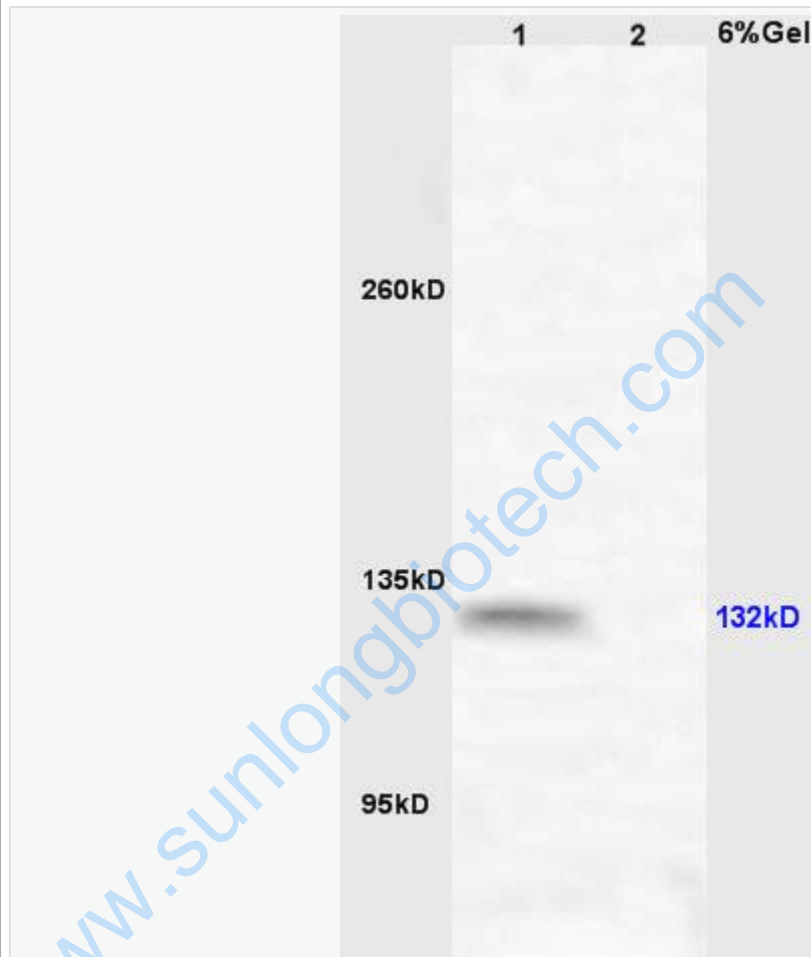
[Unigene: 23790](#)Mouse

[Unigene: 391962](#)Mouse

Important Note:

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

Picture:



Sample:

Muscle (Mouse) Lysate at 40 ug

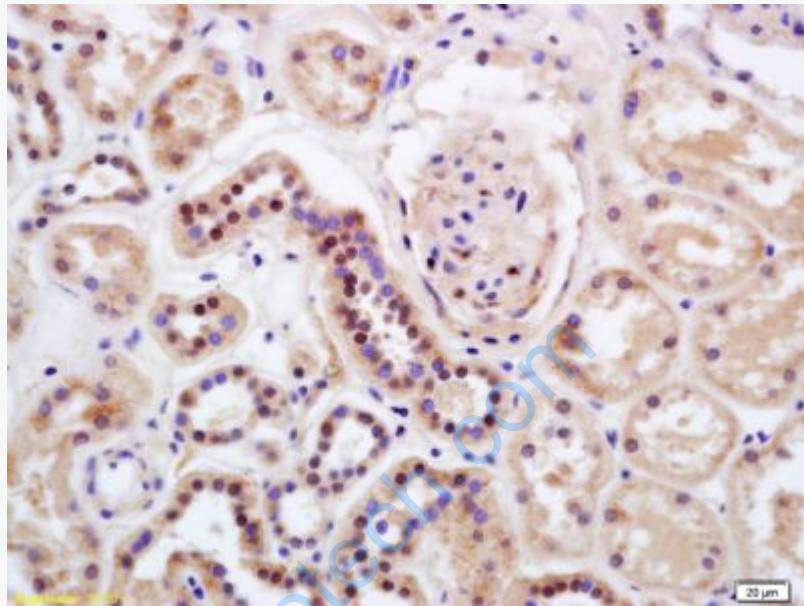
Kidney (Mouse) Lysate at 40 ug

Primary: Anti-HIPK2 (SL6353R) at 1/300 dilution

Secondary: HRP conjugated Goat-Anti-rabbit IgG (SL6353R) at 1/5000 dilution

Predicted band size: 131 kD

Observed band size: 132 kD



Tissue/cell: human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-HIPK2 Polyclonal Antibody, Unconjugated(SL6353R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining