



Rabbit Anti-HIPK4 antibody

SL7612R

Product Name:	HIPK4
Chinese Name:	同源相互作用蛋白激酶4抗体
Alias:	HIPK 4; HIPK4; HIPK4_HUMAN; Homeodomain interacting protein kinase 4; Homeodomain-interacting protein kinase 4.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	ELISA=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:	69kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human HIPK4:251-350/616
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:	The phosphorylation and dephosphorylation of proteins on serine and threonine residues is an essential means of regulating a broad range of cellular functions in eukaryotes, including cell division, homeostasis and apoptosis. The homeodomain-interacting protein kinases (HIPK1, HIPK2, HIPK3 and HIPK4) comprise a subfamily of kinase proteins that have a conserved protein kinase domain, as well as a separate domain that interacts with homeoproteins. HIPK4 (Homeodomain-interacting protein kinase 4) is a

616 amino acid protein that localizes to the cytoplasm and exists as two isoforms that are produced by alternative splicing events. Like other members of the HIPK family, HIPK4 functions as a protein kinase that catalyzes the ATP-dependent phosphorylation of target proteins and is thought to act as a corepressor of target transcription factors.

Function:

Protein kinase that phosphorylates human TP53 at Ser-9, and thus induces TP53 repression of BIRC5 promoter (By similarity). May act as a corepressor of transcription factors.

Subcellular Location:

Cytoplasm (By similarity).

Post-translational modifications:

Autophosphorylated (By similarity).

Similarity:

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

Contains 1 protein kinase domain.

SWISS:

Q8NE63

Gene ID:

147746

Database links:

[Entrez Gene: 147746](#) Human

[Entrez Gene: 233020](#) Mouse

[Entrez Gene: 308449](#) Rat

[Omim: 611712](#) Human

[SwissProt: Q8NE63](#) Human

[SwissProt: Q3V016](#) Mouse

[SwissProt: Q4V793](#) Rat

[Unigene: 79363](#) Human

[Unigene: 429716](#) Mouse

[Unigene: 41008](#) Rat

Important Note:

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

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