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Rabbit Anti-GLIS2 antibody

SL11566R

Product Name:	GLIS2
Chinese Name:	GLIS2蛋白抗体
Alias:	NPHP7; NKL; GLI kruppel family member 2; GLI similar 2; GLI-similar 2; GLIS 2; GLIS family zinc finger 2; glis2; GLIS2_HUMAN; Kruppel like zinc finger protein GLIS2; Neuronal Krueppel-like protein; Tax helper protein; THP; Zinc finger protein GLI2; Zinc finger protein GLIS2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=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:	56kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human GLIS2:271-350/524
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:	GLIS2 is a 524 amino acid protein that belongs to the GLI C2H2-type zinc-finger protein family. By recruiting the corepressors CtBP1 and HDAC3, GLIS2 represses the transcriptional activation mediated by ∫-catenin in the Wnt pathway. GLIS2 can act either as a transcription repressor or as a transcription activator and may be involved in

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neuron differentiation. Mutations of GLIS2 may be associated with development of progressive chronic kidney disease with characteristics resembling nephronophthisis. GLIS2 contains five tandem Cys(2)-His(2) zinc finger motifs that exhibit the highest homology to those of members of the GLI and Zic subfamilies of Krüppel-like proteins. GLIS2 is expressed at high levels in kidney and at low levels in heart, lung and placenta.

Function:
Can act either as a transcription repressor or as a transcription activator, depending on the cell context. Represses the transcriptional activation mediated by CTNNB1 in the Wnt pathway. May act by recruiting the corepressors CTBP1 and HDAC3. May be involved in neuron differentiation.

Subunit:
Interacts with CTBP1 and HDAC3 (By similarity). Interacts with CTNNB1 (By similarity). Interacts with SUFU (By similarity). Interacts with CTNND1.

Subcellular Location:
Nucleus speckle. Cytoplasm.

Tissue Specificity:
Expressed at high levels in kidney and at low levels in heart, lung and placenta. Expressed in colon.

Post-translational modifications:
C-terminus cleavage is induced by interaction with CTNND1 and enhanced by Src tyrosine kinase

DISEASE:
Defects in GLIS2 are the cause of nephronophthisis type 7 (NPHP7) [MIM:611498]. NPHP7 is an autosomal recessive disorder resulting in end-stage renal disease during childhood or adolescence. It is a progressive tubulo-interstitial kidney disorder histologically characterized by modifications of the tubules with thickening of the basement membrane, interstitial fibrosis and, in the advanced stages, medullary cysts.

Similarity:
Belongs to the GLI C2H2-type zinc-finger protein family.
Contains 5 C2H2-type zinc fingers.

SWISS:
Q9BZE0

Gene ID:
84662

Database links:

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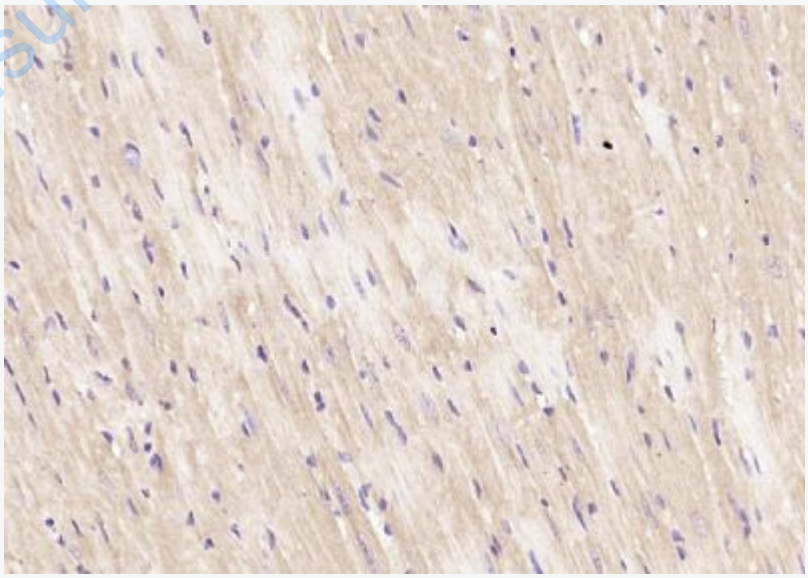
	Entrez Gene: 374023Chicken Entrez Gene: 84662Human Entrez Gene: 83396Mouse Entrez Gene: 302946Rat Omim: 608539Human SwissProt: Q9BZE0Human SwissProt: Q8R4X9Mouse SwissProt: Q8VDL9Mouse SwissProt: Q99MY6Mouse SwissProt: Q99P73Mouse Unigene: 592087Human Unigene: 134072Mouse **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Paraformaldehyde-fixed, paraffin embedded (mouse heart); Antigen retrieval by

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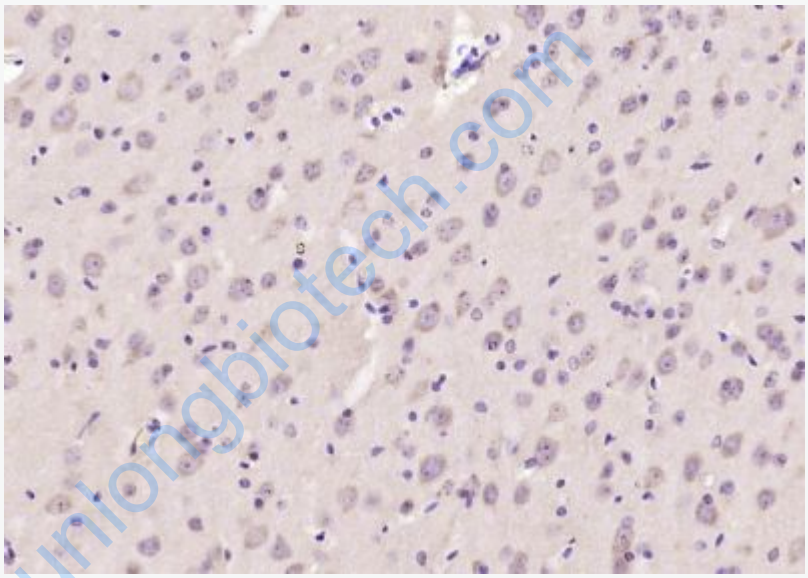
boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GLIS2) Polyclonal Antibody, Unconjugated (SL11566R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GLIS2) Polyclonal Antibody, Unconjugated (SL11566R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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