SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-GLIS2 antibody

Catalog Number: SL11566R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	GLIS2
Immunogen:	KLH conjugated synthetic peptide derived from human GLIS2: 271-350/524
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Reactivity:	Mouse (predicted: Human, Rat, Rabbit, Pig, Sheep, Cow, Chicken, Dog)
Predicted MW.:	56kDa
Subcellular Location:	The nucleus cytoplasmic
Background:	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 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

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	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. **Database links:** **Entrez Gene:** 374023 Chicken **Entrez Gene:** 84662 Human **Entrez Gene:** 83396 Mouse **Entrez Gene:** 302946 Rat Omim: 608539 Human **SwissProt:** Q9BZE0 Human **SwissProt:** Q8R4X9 Mouse **SwissProt:** Q8VDL9 Mouse **SwissProt:** Q99MY6 Mouse **SwissProt:** Q99P73 Mouse **Unigene:** 592087 Human **Unigene:** 134072 Mouse

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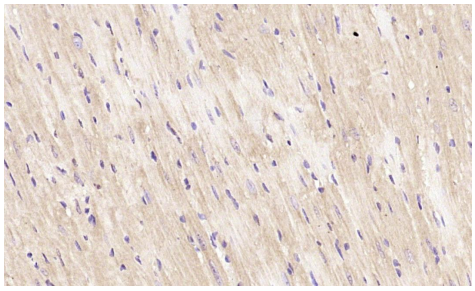
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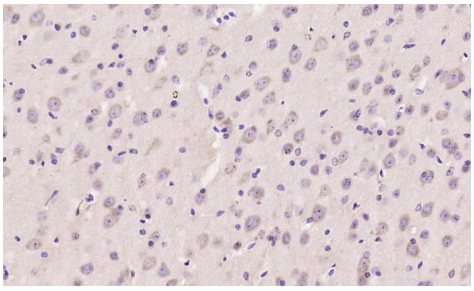
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[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (mouse heart); 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.



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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