10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

GLIS2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP16510c

Specification

GLIS2 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	O9BZE0
Other Accession	NP_115964.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Calculated MW	**55689**
Antigen Region	**173-202**

GLIS2 Antibody (Center) - Additional Information

Gene ID 84662

Other Names
Zinc finger protein GLIS2, GLI-similar 2, Neuronal Krueppel-like protein, GLIS2, NKL

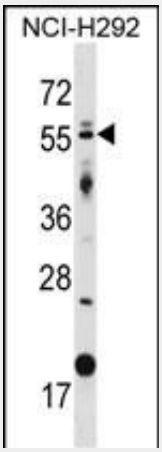
Target/Specificity
This GLIS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 173-202 amino acids from the Central region of human GLIS2.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
GLIS2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.



GLIS2 Antibody (Center) (Cat. #AP16510c) western blot analysis in NCI-H292 cell line lysates (35ug/lane).This demonstrates the GLIS2 antibody detected the GLIS2 protein (arrow).

GLIS2 Antibody (Center) - Background

This gene is a member of the GLI-similar zinc finger
protein family and encodes a nuclear transcription factor with five
C2H2-type zinc finger domains. The protein encoded by this gene is
widely expressed at low levels in the neural tube and peripheral
nervous system and likely promotes neuronal differentiation. It is
abundantly expressed in the kidney and may have a role in the
regulation of kidney morphogenesis. p120 regulates the expression
level of this protein and induces the cleavage of this protein's
C-terminal zinc finger domain. This protein also promotes the
nuclear translocation of p120. Mutations in this gene cause
nephronophthisis (NPHP), an autosomal recessive kidney disease
characterized by tubular basement membrane

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

GLIS2 Antibody (Center) - Protein Information

Name GLIS2

Synonyms NKL

Function
Can act either as a transcriptional repressor or as a transcriptional activator, depending on the cell context. Acts as a repressor of the Hedgehog signaling pathway (By similarity). Represses the Hedgehog-dependent expression of Wnt4 (By similarity). Necessary to maintain the differentiated epithelial phenotype in renal cells through the inhibition of SNAI1, which itself induces the epithelial-to-mesenchymal transition (By similarity). Represses transcriptional activation mediated by CTNNB1 in the Wnt signaling pathway. May act by recruiting the corepressors CTBP1 and HDAC3. May be involved in neuron differentiation (By similarity).

Cellular Location
Nucleus speckle. Cytoplasm

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

GLIS2 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

disruption, interstitial lymphohistiocytic cell infiltration, and development of cysts at the corticomedullary border of the kidneys.

GLIS2 Antibody (Center) - References

Attanasio, M., et al. Nat. Genet. 39(8):1018-1024(2007)
Hosking, C.R., et al. Mol. Biol. Cell 18(5):1918-1927(2007)
Kim, Y.S., et al. FEBS Lett. 581(5):858-864(2007)
Olsen, J.V., et al. Cell 127(3):635-648(2006)
Kim, Y.S., et al. Nucleic Acids Res. 31(19):5513-5525(2003)