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GLIS2 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP16510c

Specification

GLIS2 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q9BZE0

GLIS2 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 84662

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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GLIS2 Antibody (Center) Blocking Peptide - 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

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GLIS2 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

GLIS2 Antibody (Center) Blocking Peptide - Images

GLIS2 Antibody (Center) Blocking Peptide - Background

This gene is a member of the GLI-similar zinc fingerprotein family and encodes a nuclear transcription factor with fiveC2H2-type zinc finger domains. The protein encoded by this gene iswidely expressed at low levels in the neural tube and peripheralnervous system and likely promotes neuronal differentiation. It isabundantly expressed in the kidney and may have a role in theregulation of kidney morphogenesis. p120 regulates the expressionlevel of this protein and induces the cleavage of this protein'sC-terminal zinc finger domain. This protein also promotes thenuclear translocation of p120. Mutations in this gene causenephronophthisis (NPHP), an autosomal recessive kidney diseasecharacterized by tubular basement membrane disruption, interstitiallymphohistiocytic cell infiltration, and development of cysts atthe corticomedullary border of the kidneys.

GLIS2 Antibody (Center) Blocking Peptide - 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)