

GLI2 Blocking Peptide (C-term)
Synthetic peptide
Catalog # BP20619c**Specification****GLI2 Blocking Peptide (C-term) - Product Information**Primary Accession [P10070](#)**GLI2 Blocking Peptide (C-term) - Additional Information****Gene ID** 2736**Other Names**

Zinc finger protein GLI2, GLI family zinc finger protein 2
{ECO:0000312|HGNC:HGNC:4318}, Tax helper protein, GLI2 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=4318)>HGNC:4318)

Target/Specificity

The synthetic peptide sequence is selected from aa 1287-1301 of HUMAN GLI2 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=4318)>HGNC:4318)

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.

GLI2 Blocking Peptide (C-term) - Protein Information**Name** GLI2 ([HGNC:4318](#))**GLI2 Blocking Peptide (C-term) - Background**

Acts as a transcriptional activator. May play a role during embryogenesis. Binds to the DNA sequence 5'-GAACCACCCA-3' which is part of the TRE-2S regulatory element that augments the Tax-dependent enhancer of human T-cell leukemia virus type 1. Is involved in the smoothened (SHH) signaling pathway.

GLI2 Blocking Peptide (C-term) - References

Tanimura A., et al. J. Virol. 72:3958-3964(1998).
Roessler E., et al. Hum. Mol. Genet. 14:2181-2188(2005).
Hillier L.W., et al. Nature 434:724-731(2005).
Tanimura A., et al. J. Virol. 67:5375-5382(1993).
Ruppert J.M., et al. Mol. Cell. Biol. 8:3104-3113(1988).

Function

Functions as transcription regulator in the hedgehog (Hh) pathway (PubMed:18455992, PubMed:26565916). Functions as transcriptional activator (PubMed:9557682, PubMed:19878745, PubMed:24311597). May also function as transcriptional repressor (By similarity). Requires STK36 for full transcriptional activator activity. Required for normal embryonic development (PubMed:15994174, PubMed:20685856).

Cellular Location

Nucleus. Cytoplasm {ECO:0000250|UniProtKB:Q0VGT2}. Cell projection, cilium {ECO:0000250|UniProtKB:Q0VGT2}. Note=STK36 promotes translocation to the nucleus. In keratinocytes, it is sequestered in the cytoplasm by SUFU. In the absence of SUFU, it translocates to the nucleus {ECO:0000250|UniProtKB:Q0VGT2} [Isoform 2]: Nucleus

Tissue Location

Expressed in breast cancers (at protein level) (PubMed:26565916). Isoform 1 and isoform 4 are expressed in HTLV-1- infected T-cell lines (at protein level) (PubMed:9557682). Isoform 1 and isoform 2 are strongly expressed in HTLV-1-infected T-cell lines (PubMed:9557682). Isoform 3 and isoform 4 are weakly expressed in HTLV- 1-infected T-cell lines (PubMed:9557682).

GLI2 Blocking Peptide (C-term) - Protocols

Provided below are standard protocols that you

may find useful for product applications.

- [Blocking Peptides](#)