GLI2 Blocking Peptide

PRODUCT OVERVIEW

Product Name	GLI2, Blocking Peptide
Full Product Name	GLI2 Peptide
Product Gene Name	GLI2 blocking peptide
Product Synonym Gene Name	HPE9; THP1; THP2
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	GLI2 peptide (MBS3225669) is used for blocking the activity of GLI2 antibody (MBS3200619)
Antibody/Peptide Pairs	GLI2 peptide (MBS3225669) is used for blocking the activity of GLI2 antibody (MBS3200620)
Molecular Weight	133kDa
OMIM	615849
Product Categories/Family for GLI2 blocking peptide	Peptide
Applications Tested/Suitable for GLI2 blocking peptide	Immunohistochemistry (IHC), Western Blot (WB)
Related Product Information for GLI2 blocking peptide	This is a synthetic peptide designed for use in combination with anti-GLI2 antibody made Target Description: GLI2 encodes a protein which belongs to the C2H2-type zinc finger protein subclass of the Gli family. Members of this subclass are characterized as transcription factors which bind DNA through zinc finger motifs. These motifs contain conserved H-C links. Gli family zinc finger proteins are mediators of Sonic hedgehog (Shh) signaling and they are implicated as potent oncogenes in the embryonal carcinoma cell. The protein encoded by this gene localizes to the cytoplasm and activates patched Drosophila homolog (PTCH) gene expression. It is also thought to play a role during embryogenesis. The encoded protein is associated with several phenotypes- Greig cephalopolysyndactyly syndrome, Pallister-Hall syndrome, preaxial polydactyly type IV, postaxial polydactyly types A1 and B.
Other Notes	Small volumes of GLI2 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GLI2 purchase	MBS3225669 is a blocking peptide targeting GLI2. Also known as GLI2 Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GLI2. It may not necessarily be applicable to this product.

NCBI GI #	215274258
NCBI GeneID	2736
NCBI Accession #	NP_084655
UniProt Primary Accession #	P10070
UniProt Related Accession #	P10070
GenBank Nucleotide #	NM_030379

NCBI Official Full Name	Zinc finger protein GLI2
NCBI Official Synonym Full Names	GLI family zinc finger 2
NCBI Official Symbol	GLI2
NCBI Official Synonym Symbols	CJS; HPE9; PHS2; THP1; THP2
UniProt Protein Name	Zinc finger protein GLI2
UniProt Synonym Protein Names	GLI family zinc finger protein 2; Tax helper protein
Protein Family	Zinc finger protein
UniProt Gene Name	GLI2
UniProt Entry Name	GLI2_HUMAN
NCBI Protein Information	zinc finger protein GLI2
NCBI Summary for GLI2	This gene encodes a protein which belongs to the C2H2-type zinc finger protein subclass of the Gli family. Members of this subclass are characterized as transcription factors which bind DNA through zinc finger motifs. These motifs contain conserved H-C links. Gli family zinc finger proteins are mediators of Sonic hedgehog (Shh) signaling and they are implicated as potent oncogenes in the embryonal carcinoma cell. The protein encoded by this gene localizes to the cytoplasm and activates patched Drosophila homolog (PTCH) gene expression. It is also thought to play a role during embryogenesis. The encoded protein is associated with several phenotypes- Greig cephalopolysyndactyly syndrome, Pallister-Hall syndrome, preaxial polydactyly type IV, postaxial polydactyly types A1 and B. [provided by RefSeq, Jul 2008]
UniProt Comments for GLI2	Functions as transcription regulator in the hedgehog (Hh) pathway (PubMed:18455992). Functions as transcriptional activator (PubMed:9557682, PubMed:19878745, PubMed:24311597). May also function as transcriptional repressor (). Requires STK36 for full transcriptional activator activity. Required for normal embryonic development (PubMed:15994174, PubMed:20685856).
Research Articles on GLI2	**1.** Usage of alternative transcription initiation/termination sites generates N- and C-terminally truncated GLI2. High expression of N- and C-terminally truncated GLI2 is coupled to melanoma invasion. RNA processing of GLI2 is TGFbeta-dependent in melanoma
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