TUSC3 Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	TUSC3, Blocking Peptide
Full Product Name	TUSC3 Peptide - N-terminal region
Product Gene Name	TUSC3 blocking peptide
Product Synonym Gene Name	TUSC3;N33;
Sequence	Synthetic peptide located within the following region: ARGAPSRRRQ AGRRLRYLPT GSFPFLLLLL LLCIQLGGGQ KKKENLLAEK
Species Reactivity	Human
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	TUSC3 peptide (MBS3244496) is used for blocking the activity of TUSC3 antibody (MBS3219625)
Molecular Weight	38kDa
OMIM	601385
Product Categories/Family for TUSC3 blocking peptide	Peptide
Related Product Information for TUSC3 blocking peptide	This is a synthetic peptide designed for use in combination with anti-TUSC3 Antibody, made Target Description: This gene is a candidate tumor suppressor gene. It is located within a homozygously deleted region of a metastatic prostate cancer. The gene is expressed in most nonlymphoid human tissues including prostate, lung, liver, and colon. Expression was also detected in many epithelial tumor cell lines. Two transcript variants encoding distinct isoforms have been identified for this gene.
Other Notes	Small volumes of TUSC3 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 TUSC3 purchase	MBS3244496 is a blocking peptide targeting TUSC3. Also known as TUSC3 Peptide - N-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TUSC3. It may not necessarily be applicable to this product.

NCBI GI #	530388069
NCBI GeneID	7991
NCBI Accession #	XP_005273704
UniProt Primary Accession #	Q13454
UniProt Related Accession #	Q13454
GenBank Nucleotide #	XM_005273647.1
NCBI Official Synonym Full Names	tumor suppressor candidate 3
NCBI Official Symbol	TUSC3

NCBI Official Synonym Symbols	M33; N33; MRT7; MRT22; MagT2; OST3A; D8S1992
UniProt Protein Name	Tumor suppressor candidate 3
UniProt Synonym Protein Names	Magnesium uptake/transporter TUSC3; Protein N33
Protein Family	Tumor suppressor candidate
UniProt Gene Name	TUSC3
UniProt Synonym Gene Names	N33
UniProt Entry Name	TUSC3_HUMAN
NCBI Protein Information	tumor suppressor candidate 3
NCBI Summary for TUSC3	This gene encodes a protein that has been associated with several biological functions including cellular magnesium uptake, protein glycosylation and embryonic development. This protein localizes to the endoplasmic reticulum and acts as a component of the oligosaccharyl transferase complex which is responsible for N-linked protein glycosylation. This gene is a candidate tumor suppressor gene. Homozygous mutations in this gene are associated with autosomal recessive nonsyndromic mental retardation-7 and in the proliferation and invasiveness of several cancers including metastatic pancreatic cancer, ovarian cancer and glioblastoma multiform. [provided by RefSeq, Oct 2017]
UniProt Comments for TUSC3	TUSC3: Magnesium transporter. May be involved in N- glycosylation through its association with N-oligosaccharyl transferase. Defects in TUSC3 are the cause of mental retardation autosomal recessive type 7 (MRT7); also known as mental retardation non-syndromic autosomal recessive 7. Mental retardation is characterized by significantly sub-average general intellectual functioning associated with impairments in adaptative behavior and manifested during the developmental period. Non- syndromic mental retardation patients do not manifest other clinical signs. Belongs to the OST3/OST6 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 8p22 Cellular Component: endoplasmic reticulum membrane; mitochondrion; integral to plasma membrane; oligosaccharyl transferase complex Molecular Function: dolichyl-diphosphooligosaccharide-protein glycotransferase activity; magnesium ion transmembrane transporter activity Biological Process: cellular protein metabolic process; cell redox homeostasis; protein amino acid N-linked glycosylation; protein amino acid N-linked glycosylation via asparagine; post-translational protein modification; cognition; magnesium ion transport Disease: Mental Retardation, Autosomal Recessive 7
Research Articles on TUSC3	**1.** miR-UL112-3p exerts its oncogene function by directly targeting TUSC3 in Glioblastoma.
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