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Goat Anti-TUSC3 / N33 Antibody

Peptide-affinity purified goat antibody
Catalog # AF2122a

Specification

Goat Anti-TUSC3 / N33 Antibody - Product Information

Application	**WB**
Primary Accession	Q13454
Other Accession	NP_839952, 7991, 80286 (mouse), 290783 (rat)
Reactivity	**Human**
Predicted	**Mouse, Rat, Cow**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**39676**

Goat Anti-TUSC3 / N33 Antibody - Additional Information

Gene ID 7991

Other Names
Tumor suppressor candidate 3, Magnesium uptake/transporter TUSC3, Protein N33, TUSC3, N33

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-TUSC3 / N33 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-TUSC3 / N33 Antibody - Protein Information

Name TUSC3

Synonyms N33

Function
Acts as accessory component of the N-oligosaccharyl transferase (OST) complex which catalyzes the transfer of a high mannose oligosaccharide from a lipid-linked oligosaccharide donor to an asparagine residue within an Asn-X-Ser/Thr consensus motif in nascent polypeptide chains. Involved in N-glycosylation of STT3B-dependent substrates. Specifically required for the

glycosylation of a subset of acceptor sites that are near cysteine residues; in this function seems to act redundantly with MAGT1. In its oxidized form proposed to form transient mixed disulfides with a glycoprotein substrate to facilitate access of STT3B to the unmodified acceptor site. Has also oxidoreductase-independent functions in the STT3B-containing OST complex possibly involving substrate recognition.

Cellular Location
Endoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Location
Expressed in most non-lymphoid cells and tissues examined, including prostate, lung, liver, colon, heart, kidney and pancreas.

Goat Anti-TUSC3 / N33 Antibody - 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

Goat Anti-TUSC3 / N33 Antibody - Images



AF2122a (1 µg/ml) staining of Human Liver lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-TUSC3 / N33 Antibody - Background

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.

Goat Anti-TUSC3 / N33 Antibody - References

Mammalian MagT1 and TUSC3 are required for cellular magnesium uptake and vertebrate embryonic development. Zhou H, et al. Proc Natl Acad Sci U S A, 2009 Sep 15. PMID 19717468.

Oligosaccharyltransferase-subunit mutations in nonsyndromic mental retardation. Molinari F, et al. Am J Hum Genet, 2008 May. PMID 18455129.
A defect in the TUSC3 gene is associated with autosomal recessive mental retardation. Garshasbi M, et al. Am J Hum Genet, 2008 May. PMID 18452889.
Deletions of N33, STK11 and TP53 are involved in the development of lymph node metastasis in larynx and pharynx carcinomas. Guerv□s MA, et al. Cell Oncol, 2007. PMID 17641416.
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