

# TUSC3 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51593

## Product Information

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Application	WB
Primary Accession	<a href="#">Q13454</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39676

## Additional Information

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Gene ID	7991
Other Names	Tumor suppressor candidate 3, Magnesium uptake/transporter TUSC3, Protein N33, TUSC3, N33
Target/Specificity	KLH conjugated synthetic peptide derived from human TUSC3
Dilution	WB~~ 1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

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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. Also has oxidoreductase-independent functions in the STT3B-containing OST complex possibly involving substrate recognition. Could indirectly play a role in Mg(2+) transport (PubMed: <a href="#">19717468</a> ).
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.

## Background

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Magnesium transporter. May be involved in N- glycosylation through its association with N-oligosaccharyl transferase.

## References

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Macgrogan D.,et al.Genomics 35:55-65(1996).

Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.

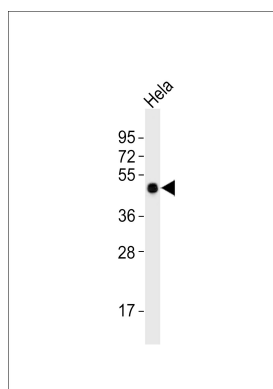
Nusbaum C.,et al.Nature 439:331-335(2006).

Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Kelleher D.J.,et al.Mol. Cell 12:101-111(2003).

## Images

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Anti-TUSC3 Antibody at 1:1000 dilution + HeLa whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 40 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.