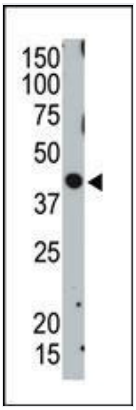
TSG101 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TSG101, Polyclonal Antibody
Full Product Name	TSG101, CT (Tumor Susceptibility Gene 101 Protein, ESCRT-I Complex Subunit TSG101) (PE)
Product Gene Name	anti-TSG101 antibody
Product Synonym Gene Name	T101
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A/G Affinity Chromatography.
Specificity	Recognizes human TSG101.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	43,944 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (18501858..18548503, complement). Location: 11p15
OMIM	601387
3D Structure	ModBase 3D Structure for Q99816
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 340-370 in the C-terminal region of human TSG101, UniProt Accession #Q99816. Species sequence homology: Mouse and Rat
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-TSG101 antibody	Antibodies; Disease Markers
Applications Tested/Suitable for anti-TSG101 antibody	FLISA, Western Blot (WB)
Application Notes for anti-TSG101 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-TSG101 antibody	TSG101 belongs to a group of apparently inactive homologs of ubiquitin-conjugating enzymes. The gene product contains a coiled-coil domain that interacts with stathmin, a cytosolic phosphoprotein implicated in tumorigenesis. The protein may play a role in cell growth and differentiation and act as a negative growth regulator. In vitro steady-state expression of this tumor susceptibility gene appears to be important for maintenance of genomic stability and cell cycle regulation. Mutations and alternative splicing in this gene occur in high frequency in breast cancer and suggest that defects occur during breast cancer tumorigenesis and/or progression.

Product References and Citations for anti-TSG101 antibody	1. Favre, M., et al., J. Acquir. Immune Defic. Syndr. 34(2):127-133 (2003). 2. Lu, Q., et al., Proc. Natl. Acad. Sci. USA 100(13):7626-7631 (2003). 3. Goila-Gaur, R., et al., J. Virol. 77(11):6507-6519 (2003). 4. Blanco, S., et al., FEMS Microbiol. Lett. 221(2):151-154 (2003). 5. Martin-Serrano, J., et al., J. Virol. 77(8):4794-4804 (2003).
Other Notes	Small volumes of anti-TSG101 antibody 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 TSG101 purchase	MBS6504016 is an antibody targeting TSG101. Also known as TSG101, CT (Tumor Susceptibility Gene 101 Protein, ESCRT-I Complex Subunit TSG101) (PE). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-TSG101 antibody
Western Blot analysis of ZR75-1 cell lysates using T9101-75B

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TSG101. It may not necessarily be applicable to this product.

NCBI GI #	5454140
NCBI GeneID	7251
NCBI Accession #	NP_006283.1
UniProt Primary Accession #	Q99816
UniProt Secondary Accession #	Q9BUM5
UniProt Related Accession #	Q99816
GenBank Nucleotide #	NM_006292.3
NCBI Official Full Name	tumor susceptibility gene 101 protein
NCBI Official Synonym Full Names	tumor susceptibility gene 101
NCBI Official Symbol	TSG101
NCBI Official Synonym Symbols	TSG10; VPS23
UniProt Protein Name	Tumor susceptibility gene 101 protein
UniProt Synonym Protein Names	ESCRT-I complex subunit TSG101
Protein Family	ESCRT-I complex
UniProt Gene Name	TSG101
UniProt Entry Name	TS101_HUMAN
NCBI Protein Information	tumor susceptibility gene 101 protein; tumor susceptibility protein; ESCRT-I complex subunit TSG101

NCBI Summary for TSG101	The protein encoded by this gene belongs to a group of apparently inactive homologs of ubiquitin-conjugating enzymes. The gene product contains a coiled-coil domain that interacts with stathmin, a cytosolic phosphoprotein implicated in tumorigenesis. The protein may play a role in cell growth and differentiation and act as a negative growth regulator. In vitro steady-state expression of this tumor susceptibility gene appears to be important for maintenance of genomic stability and cell cycle regulation. Mutations and alternative splicing in this gene occur in high frequency in breast cancer and suggest that defects occur during breast cancer tumorigenesis and/or progression. [provided by RefSeq, Jul 2008]
UniProt Comments for TSG101	TSG101: Component of the ESCRT-I complex, a regulator of vesicular trafficking process. Binds to ubiquitinated cargo proteins and is required for the sorting of endocytic ubiquitinated cargos into multivesicular bodies (MVBs). Mediates the association between the ESCRT-0 and ESCRT-I complex. Required for completion of cytokinesis; the function requires CEP55. May be involved in cell growth and differentiation. Acts as a negative growth regulator. Involved in the budding of many viruses through an interaction with viral proteins that contain a late-budding motif P-[ST]-A-P. This interaction is essential for viral particle budding of numerous retroviruses. Belongs to the ubiquitin-conjugating enzyme family. UEV subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Nuclear receptor co-regulator; Cell cycle regulation Chromosomal Location of Human Ortholog: 11p15 Cellular Component: multivesicular body; late endosome membrane; early endosome; cytoplasm; late endosome; plasma membrane; nucleolus; endosome membrane Molecular Function: ubiquitin binding; protein binding; protein homodimerization activity; DNA binding; ubiquitin protein ligase binding; transcription corepressor activity; calcium-dependent protein binding Biological Process: viral reproduction; ubiquitin-dependent protein catabolic process via the multivesicular body pathway; non-lytic virus budding; protein modification process; viral infectious cycle; virus assembly; endosome transport; keratinocyte differentiation; negative regulation of cell proliferation; protein transport; cell division; viral protein processing; regulation of cell growth; cell cycle arrest; negative regulation of transcription, DNA-dependent Disease: Breast Cancer
Research Articles on TSG101	**1.** Data indicate tht n the Biaka, strong signal of selection was detected at CUL5 and at TSG101.
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