

**TSG101 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP2155a****Specification**

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**TSG101 Antibody (N-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">O99816</a>
Other Accession	<a href="#">NP_006283</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	43944
Antigen Region	1-30

**TSG101 Antibody (N-term) - Additional Information****Gene ID** 7251**Other Names**

Tumor susceptibility gene 101 protein, ESCRT-I complex subunit TSG101, TSG101

**Target/Specificity**

This TSG101 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human TSG101.

**Dilution**

WB~~1:1000

IHC-P~~1:50~100

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

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

**Precautions**

TSG101 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**TSG101 Antibody (N-term) - Protein Information****Name** TSG101**Function** 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. Required for the exosomal release of SDCBP, CD63 and syndecan (PubMed:[22660413](#)). It may also play a role in the extracellular release of microvesicles that differ from the exosomes (PubMed:[22315426](#)).

#### Cellular Location

Cytoplasm. Early endosome membrane; Peripheral membrane protein; Cytoplasmic side. Late endosome membrane; Peripheral membrane protein. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Midbody, Midbody ring. Nucleus. Note=Mainly cytoplasmic. Membrane-associated when active and soluble when inactive. Nuclear localization is cell cycle-dependent. Interaction with CEP55 is required for localization to the midbody during cytokinesis

#### Tissue Location

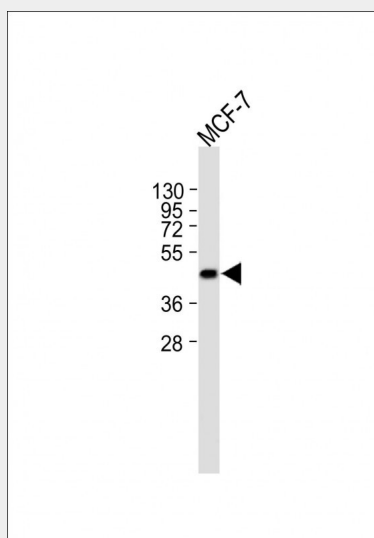
Heart, brain, placenta, lung, liver, skeletal, kidney and pancreas

#### TSG101 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

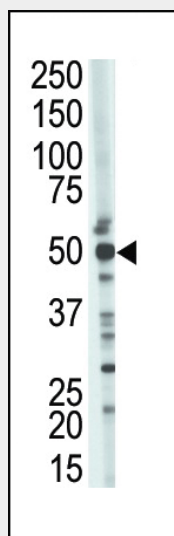
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### TSG101 Antibody (N-term) - Images

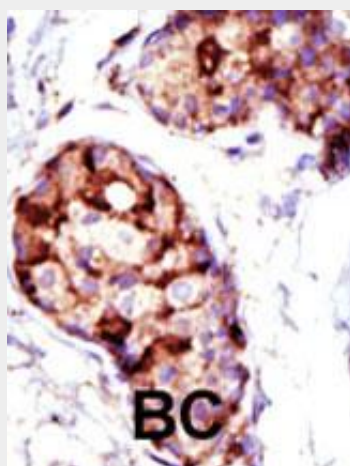


All lanes : Anti-TSG101 Antibody (N-term) at 1:1000 dilution Lane 1: MCF-7 whole cell lysate

Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Observed band size : 44 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



The anti-TSG101 Pab (Cat. #AP2155a) is used in Western blot to detect TSG101 in mouse kidney tissue lysate.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

#### **TSG101 Antibody (N-term) - Background**

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.

#### **TSG101 Antibody (N-term) - References**

Favre, M., et al., J. Acquir. Immune Defic. Syndr. 34(2):127-133 (2003).  
Lu, Q., et al., Proc. Natl. Acad. Sci. U.S.A. 100(13):7626-7631 (2003).

Goila-Gaur, R., et al., J. Virol. 77(11):6507-6519 (2003).  
Blanco, S., et al., FEMS Microbiol. Lett. 221(2):151-154 (2003).  
Martin-Serrano, J., et al., J. Virol. 77(8):4794-4804 (2003).