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# TSG101 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8662b

## Product Information

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| **Application** | WB, E |
| **Primary Accession** | Q99816 |
| **Reactivity** | Human |
| **Predicted** | Mouse, Rat, Bovine, Canine, Rabbit, Chicken |
| **Host** | Mouse |
| **Clonality** | monoclonal |
| **Isotype** | IgG1,κ |
| **Clone Names** | 1883CT788.47.15.46 |
| **Calculated MW** | 43944 |

## Additional Information

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| **Gene ID** | 7251 |
| **Other Names** | Tumor susceptibility gene 101 protein, ESCRT-I complex subunit TSG101, TSG101 |
| **Target/Specificity** | This antibody is generated from a mouse immunized with a recombinant protein from human. |
| **Dilution** | WB~~1:2000 E~~Use at an assay dependent concentration. |
| **Format** | Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, 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 is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **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 |

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| | 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 |

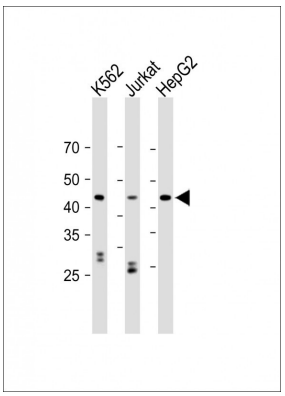
## Background

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.

## References


Li L.,et al.Cell 88:143-154(1997).
Li L.,et al.Cell 93:661-661(1998).
Gayther S.A.,et al.Oncogene 15:2119-2126(1997).
Lee M.P.,et al.Cancer Res. 57:3131-3134(1997).
Wagner K.-U.,et al.Oncogene 17:2761-2770(1998).


## Images




All lanes: Anti-TSG101 Antibody at 1:1000 dilution Lane 1: K562 whole cell lysate Lane 2: Jurkat whole cell lysate Lane 3: HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Mouse IgG, (H+L), Peroxidase conjugated (ASP1613) at 1/8000 dilution. Observed band size: 44 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

## Citations

- A Novel Urine Exosomal lncRNA Assay to Improve the Detection of Prostate Cancer at Initial Biopsy: A Retrospective

Multicenter Diagnostic Feasibility Study

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