

TSG101 (ANT0040R) Rabbit mAb

CatalogNo: ANT8150 **Recombinant** 

Formulation: PBS,50%glycerol,0.05%Proclin 300,0.05%BSA
Quantity : 100 ug/vial

Host Species

- Rabbit
- Human,Mouse,Rat,

Reactivity

- WB,IF,IP,ELISA

Applications

MW

- 44kD (Calculated)
 - IgG,Kappa
- 44kD (Observed)

Isotype

Recommended Dilution Ratios

WB 1:1000-1:5000

IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200,

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Basic Information

Clonality Monoclonal

Clone Number ANT0040R

Immunogen Information

Specificity Endogenous

Target Information

Gene name

TSG101

Protein Name

Tumor susceptibility gene 101 protein

Organism	Gene ID	UniProt ID
Human	7251 ;	Q99816 ;
Mouse	22088 ;	Q61187 ;
Rat	292925 ;	Q6IRE4 ;

Cellular

Localization

Cytoplasm, Nuclear

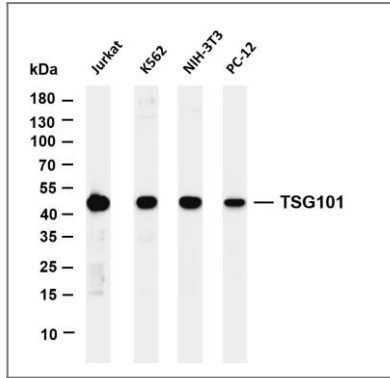
Tissue specificity

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

Function

Alternative products:Additional isoforms seem to exist. Several shorter isoforms are detected in primary breast cancers and other tumors,Domain:The coiled coil domain may interact with stathmin.,Domain:The UEV domain binds ubiquitin and P-[ST]-A-P peptide motif independently.,Domain:The UEV domain is required for the interaction of the complex with ubiquitin. It also mediates the interaction with ANTAP/PSAP motifs of HIV-1 P6 protein and human spumaretrovirus Gag protein.,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.,PTM:Monoubiquitinated at multiple sites by LRSAM1. Ubiquitination inactivates it, possibly by regulating its shuttling between an active membrane-bound protein and an inactive soluble form.,similarity:Belongs to the ubiquitin-conjugating enzyme family. UEV subfamily.,similarity:Contains 1 SB (steadiness box) domain.,similarity:Contains 1 UEV (ubiquitin E2 variant) domain.,subcellular location:Mainly cytoplasmic. Membraneassociated when active and soluble when inactive. Depending on the stage of the cell cycle, detected in the nucleus. Colocalized with CEP55 in the midbody during cytokinesis.,subunit:Component of the ESCRT-I complex (endosomal sorting complex required for transport I) which consists of TSG101, VPS28, a VPS37 protein (VPS37A to -D) and a FAM125/MVB12 protein (FAM125A or -B) in a 1:1:1:1 stoichiometry. Interacts with VPS37A, VPS37B and VPS37C. Interacts with ubiquitin, stathmin, GMCL, DMAP1 and AATF (By similarity). Interacts with HGS; the interaction mediates the association with the ESCRT-0 complex. Interacts with GGA1 and GGA3. Interacts (via UEV domain) with PDCD6IP/AIP1. Interacts with VPS28, SNF8 and VPS36. Self-associates. Interacts with FAM125A/MVB12A; the association appears to be mediated by the TSG101-VPS37 binary subcomplex. Interacts with VPS37D. Interacts with LRSAM1. Interacts with CEP55; the interaction is required for cytokinesis but not for viral budding. Interacts with HIV-1 p6. Interacts with human spumavirus Gag. Interacts with HTLV-1 Gag. Interacts with Ebola virus VP40. Interacts with EIAV p9; the interaction has been shown in vitro.,tissue specificity:Heart, brain, placenta, lung, liver, skeletal, kidney and pancreas.,

Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-TSG101 (ANT0040R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Jurkat Lane 2: K562 Lane 3: NIH-3T3 Lane 4: PC-12

Predicted band size: 44kDa Observed band size: 44kDa

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