

Rabbit TSG101 Polyclonal Antibody | anti-TSG101 antibody

TSG101 Antibody

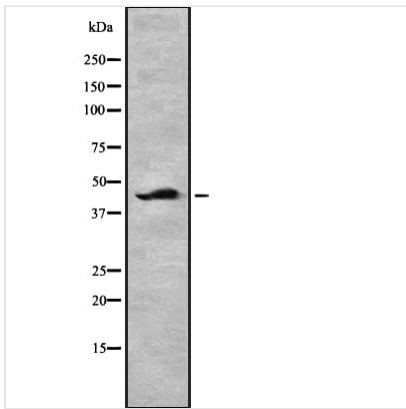
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327482	Rabbit	Human, Monkey	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

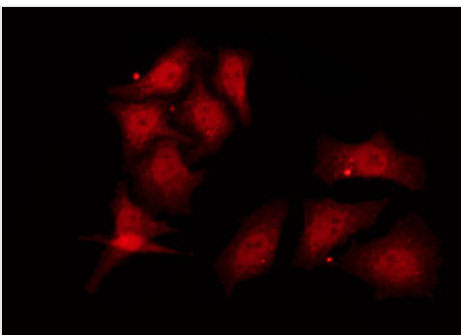
TSG101; Polyclonal Antibody; TSG101 Antibody; ESCRT I complex subunit TSG101; ESCRT-I complex subunit TSG101; TS101_HUMAN; TSG 10; TSG 101; TSG10; Tsg101; Tumor susceptibility gene 10; Tumor susceptibility gene 101; Tumor susceptibility gene 101 protein; Tumor susceptibility protein; Tumor susceptibility protein isoform 3; VPS 23; VPS23; anti-TSG101 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Monkey
Clonality	Polyclonal
Isotype	IgG
Specificity	TSG101 antibody detects endogenous levels of total TSG101
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	390
Applicable Applications for anti-TSG101 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human TSG101
Subcellular Location	Cytoplasm. Membrane. Nucleus. Late Endosome Membrane. Mainly cytoplasmic. Membrane-associated 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.
Tissue Specificity	Heart, brain, placenta, lung, liver, skeletal, kidney and pancreas.
Predicted Cross Reactivity	Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Bovine (91%), Horse (100%), Sheep (91%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of TSG101 using K562 whole cell lysates



IF (Immunofluorescence)
AAA327482 staining COS7 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-TSG101 antibody	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). Subunit Structure: 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 MVB12A or MVB12B in a 1:1:1:1 stoichiometry (PubMed:18005716). Interacts with VPS37A, VPS37B and VPS37C (PubMed:15218037, PubMed:15509564). Interacts with DMAP1 (PubMed:10888872). Interacts with ubiquitin (PubMed:11595185). Interacts with stathmin, GMCL and AATF (By similarity). Component of an ESCRT-I complex (endosomal sorting complex required for transport I) which consists of TSG101, VPS28, VPS37A and UBAP1 in a 1:1:1:1 stoichiometry (PubMed:21757351). Interacts with HGS; the interaction mediates the association with the ESCRT-0 complex. Interacts with GGA1 and GGA3 (PubMed:15143060, PubMed:15039775). Interacts (via UEV domain) with PDCD6IP/AIP1 (PubMed:14505570, PubMed:14519844). Interacts with VPS28, SNF8 and VPS36 (PubMed:14505570). Self-associates (PubMed:14505570, PubMed:14519844). Interacts with 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 (PubMed:17853893). Interacts with PDCD6 (PubMed:18256029). Interacts with LITAF (PubMed:23166352). Interacts with HIV-1 p6 (PubMed:11595185, PubMed:11427703, PubMed:12006492, PubMed:21070952, PubMed:21643473). Interacts with human spumavirus Gag (PubMed:15858022). Interacts with HTLV-1 Gag (PubMed:14581525). Interacts with Ebola virus VP40 (PubMed:12559917). Interacts with EIAV p9; the interaction has been shown in vitro (PubMed:14519844). Interacts with MGRN1 (PubMed:17229889). Interacts with ARRDC1; recruits TSG101 to the plasma membrane (PubMed:21191027, PubMed:22315426). Post-translational Modifications: Monoubiquitinated at multiple sites by LRSAM1 and by MGRN1. Ubiquitination inactivates it, possibly by regulating its shuttling between an active membrane-bound protein and an inactive soluble form. Ubiquitination by MGRN1 requires the presence of UBE2D1. Similarity: The UEV domain is required for the interaction of the complex with ubiquitin. It also mediates the interaction with PTAP/PSAP motifs of HIV-1 P6 protein and human spumaretrovirus Gag protein. The coiled coil domain may interact with stathmin. The UEV domain binds ubiquitin and P-[ST]-A-P peptide motif independently. Belongs to the ubiquitin-conjugating enzyme family. UEV subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	5454140
NCBI GeneID	7251
NCBI Accession #	NP_006283.1

NCBI GenBank Nucleotide #	NM_006292.3
UniProt Accession #	Q99816 ; Q9BUM5
Molecular Weight	Observed: 45 kDa Predicted: 44 kDa
NCBI Official Full Name	tumor susceptibility gene 101 protein
NCBI Official Synonym Full Names	tumor susceptibility 101
NCBI Official Symbol	TSG101
NCBI Official Synonym Symbols	TSG10; VPS23
NCBI Protein Information	tumor susceptibility gene 101 protein
UniProt Protein Name	Tumor susceptibility gene 101 protein
UniProt Gene Name	TSG101

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/tsg101-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/327482>