

Recombinant Anti-TSG101 Rabbit mAb

Catalog # AP95003

Product Information

Application	WB, IHC, FC, IF/IC
Primary Accession	Q99816
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal
Calculated MW	43944

Additional Information

Gene ID	7251
Other Names	Tumor susceptibility gene 101 protein; ESCRT-I complex subunit TSG101
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human TSG101 protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

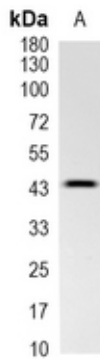
Name	TSG101
Function	Component of the ESCRT-I complex, a regulator of vesicular trafficking process. Binds to ubiquitinated cargo proteins and is required for the sorting of endocytic ubiquitinated cargos into multivesicular bodies (MVBs). Mediates the association between the ESCRT-0 and ESCRT-I complex. 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

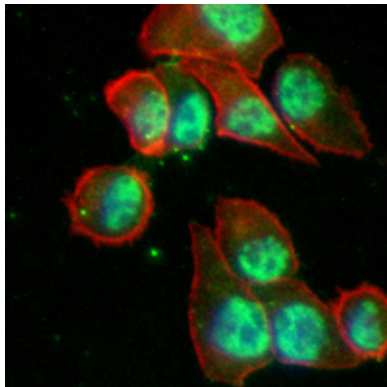
Tissue Location

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

Images



Western blot analysis of TSG101 expression in Jurkat (A) whole cell lysates. (Predicted band size: 44 kD; Observed band size: 44 kD)



Immunofluorescent analysis of TSG101 staining in Jurkat cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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