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TSG101 Antibody (clone 5B7)

Mouse Monoclonal Antibody
Catalog # ALS14166

Specification

TSG101 Antibody (clone 5B7) - Product Information

Application	**WB, IF, IHC**
Primary Accession	Q99816
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**44kDa KDa**

TSG101 Antibody (clone 5B7) - Additional Information

Gene ID 7251

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

Target/Specificity
Human TSG101

Reconstitution & Storage
Long term: -20°C; Short term: -20°C

Precautions
TSG101 Antibody (clone 5B7) is for research use only and not for use in diagnostic or therapeutic procedures.

TSG101 Antibody (clone 5B7) - 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

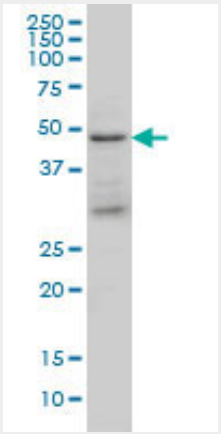
Tissue Location
Heart, brain, placenta, lung, liver, skeletal, kidney and pancreas

TSG101 Antibody (clone 5B7) - Protocols

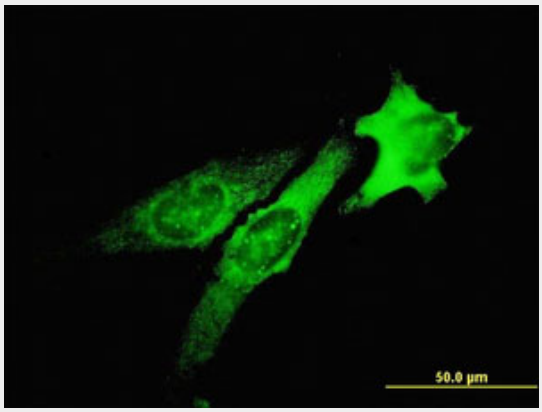
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TSG101 Antibody (clone 5B7) - Images



TSG101 monoclonal antibody clone 5B7 Western blot of TSG101 expression in K-562.



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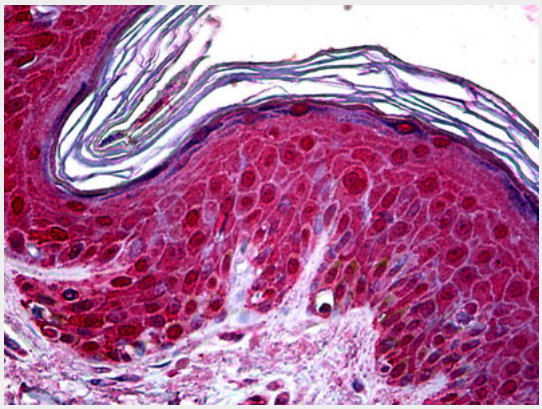
Immunofluorescence of monoclonal antibody to TSG101 on HeLa cell. [antibody concentration 10 ug/ml]



Anti-TSG101 antibody IHC of human skin.

TSG101 Antibody (clone 5B7) - 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.

TSG101 Antibody (clone 5B7) - 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).